

D'sa, Leslie

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**From:** ROC1 / COR1 (DFO/MPO)  
**Sent:** March-17-19 2:15 AM  
**Subject:** 19-023 Incident Initial Notification, SAR, Caravos Harmony Collision, Initial/Final

**19-023 Incident Initial Notification, SAR, Caravos Harmony Collision, Initial/Final**

NOTIFICATION OF A SIGNIFICANT EVENT

**CANADIAN COAST GUARD – WESTERN REGION – REGIONAL OPERATIONS CENTRE**

**1. CCG Region/Incident Name:** Western / Caravos Harmony Collision. SAR Incident V19-0297

**2. Incident Category/Type:** Collision

**3. Date/Time:** 03/17/2019 0019 PDST

**4. Primary Department(s)/Agency(s):** CCG

**5. Supporting Departments/Agencies:**

**6. Regional Location:** Vancouver Hbr

**a. Province/Territory:** BC

**b. City:** *Vancouver*

**c. Amplifying location details (as required):** Anchorage A

**7. Current Situation:** 229 metre bulk carrier Caravos Harmony, transiting Vancouver Hbr lost all power and struck the 292 metre bulk carrier Pan Acacia. The Pan Acacia was at anchorage A.

**8. Actions Taken:** JRCC Victoria tasked CG 158 from CG Station Kitsilano, the Moytel from CG station Sea island. Tugs Seaspan Raven and Ocean Gordon arrived on scene.

After initial assessments and at 0110 PDST it was determined that all POB's from both ships were accounted for and there were no injuries. Both tugs had stabilized the movement of the Caravos Harmony.

The Caravos Harmony is now under control of two tugs and being taken to anchorage D, Vancouver harbour. Damage to both ships is reported to be above the waterline, the Pan Acacia has a 10x15 foot hole in the hull at about 15 feet above the waterline and the Caravos Harmony has unspecified bow damage.

CG Moytel has been stood down

CG 158 has stood down from JRCC tasking and continues to monitor the situation providing sitreps to CG ER.

At time of this NINP there were no reports of any pollutants entering the water.

**9. Media/Public Communications:** Via this NINP CG PA notified.

**10. Activities Next 24 Hours:** CG ER has assumed on scene coordination with remaining CG asset, CG 158

**11. Environmental Factors:** Darkness

**12. Significant Issues:** Further in depth assessment of hull integrity in darkness

**13. Personnel Status:**

**a. CCG:** Normal, on tasking.

**b. Others:**

**14. Equipment Status:**

**a. CCG:** Normal

**b. Others:**

**15. New Requirements:** None

**16. Command Assessment:** Media interest will be very high as daylight approaches. Further investigation by TSB required. All resources have been stood down and have returned to normal SAR posture.

**17. Next SITREP.** This will be the final SITREP. This NINP was sent in this format to allow more detail in the report.

**D'sa, Leslie**

**From:** ROC1 / COR1 (DFO/MPO)  
**Sent:** March-17-19 12:59 AM  
**Subject:** 0201 - ALERT - 2019 - POL - ROC – CARAVOS HARMONY VANCOUVER HARBOUR - INITIAL  
**Attachments:** VANCOUVER HARBOUR.JPG

0201 - ALERT - 2019 - POL - ROC – CARAVOS HARMONY VANCOUVER HARBOUR - INITIAL  
 CANADIAN COAST GUARD – WESTERN REGION – REGIONAL OPERATIONS CENTRE

<b>GENERAL INFORMATION- POLLUTION REPORT</b>			
DATE/TIME OF REPORT:	2019-03-17 00:36PDT		
DATE/TIME OF SPILL:	POTENTIAL		
REPORTING PARTY/CONTACT INFO:	JRCC/MCTS VIA 1709		
<b>SITUATION DETAILS</b>			
LOCATION/POSITION :	VANCOUVER HARBOUR		
TYPE OF POLLUTANT:	UNKNOWN		
QUANTITY:	UNKNOWN	COLOUR/ODOUR:	
ORIGIN:	DEEP SEA CARAVOS HARMONY AND DEEP SEA PAN ACACIA		
WEATHER CONDITIONS:	CLEAR, LIGHT WINDS		
ADDITIONAL INFORMATION:	DEEP SEA CARAVOS HARMONY LOSS POWER AFTER PASSING FIRST NARROWS AND COLLIDED WITH THE DEEP SEA PAN ACACIA AT ANCHORAGE A. SEE DAMAGE BELOW. NO INJURIES OR POLLUTION REPORTED AS OF 00:50PDT. CCG ER DO HAS BEEN NOTIFIED AND IS ASSESSING. KITSILANO LIFE BOAT STATION TASKED, CCG ACV MOYTEL TASKED.		
PICTURES:	N/A		
<b>VESSEL INFORMATION (IF APPLICABLE)</b>			
VESSEL NAME:	CARAVOS HARMONY	/	PAN ACACIA
CALL SIGN AND MMSI:	V7ZH2	/	3FUG9
OVERALL LENGTH (LOA) :	229M	/	291M
VESSEL TYPE:	BULK CARRIER	/	BULK CARRIER
OWNER/AGENT/FLAG:	MARSHALL IS	/	PANAMA
ADDITIONAL INFORMATION:	DAMAGE TO BOW	/	HAS 10FT X 10FT HOLE ABOVE PORT HATCH
<b>ALERT LIST (NAME AND DATE/TIME OF VERBAL ALERT)</b>			
CCG-W ER DUTY OFFICER	2019-03-17 00:30PDT JB		
TC MARINE SAFETY – VANCOUVER (ONLY IF A VESSEL IS INVOLVED)			
VANCOUVER HM (ONLY WITHIN HARBOUR OR SHIP BOUND FOR HARBOUR)			
Area MCTS Centre			
DFO PUBLIC AFFAIRS (NEWS POTENTIAL ONLY)			
ROC OFFICER:	JFS		



REGIONAL OPERATIONS CENTRE - WESTERN  
CANADIAN COAST GUARD/GOVERNMENT OF CANADA  
[ROC1-COR1.MPO@dfo-mpo.gc.ca](mailto:ROC1-COR1.MPO@dfo-mpo.gc.ca) /TEL (hotline) : 1-800-889-8852 /  
TEL (non-emergency): 250-480-2772 / BB: [REDACTED]



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Canadian  
Coast Guard

Garde côtière  
canadienne

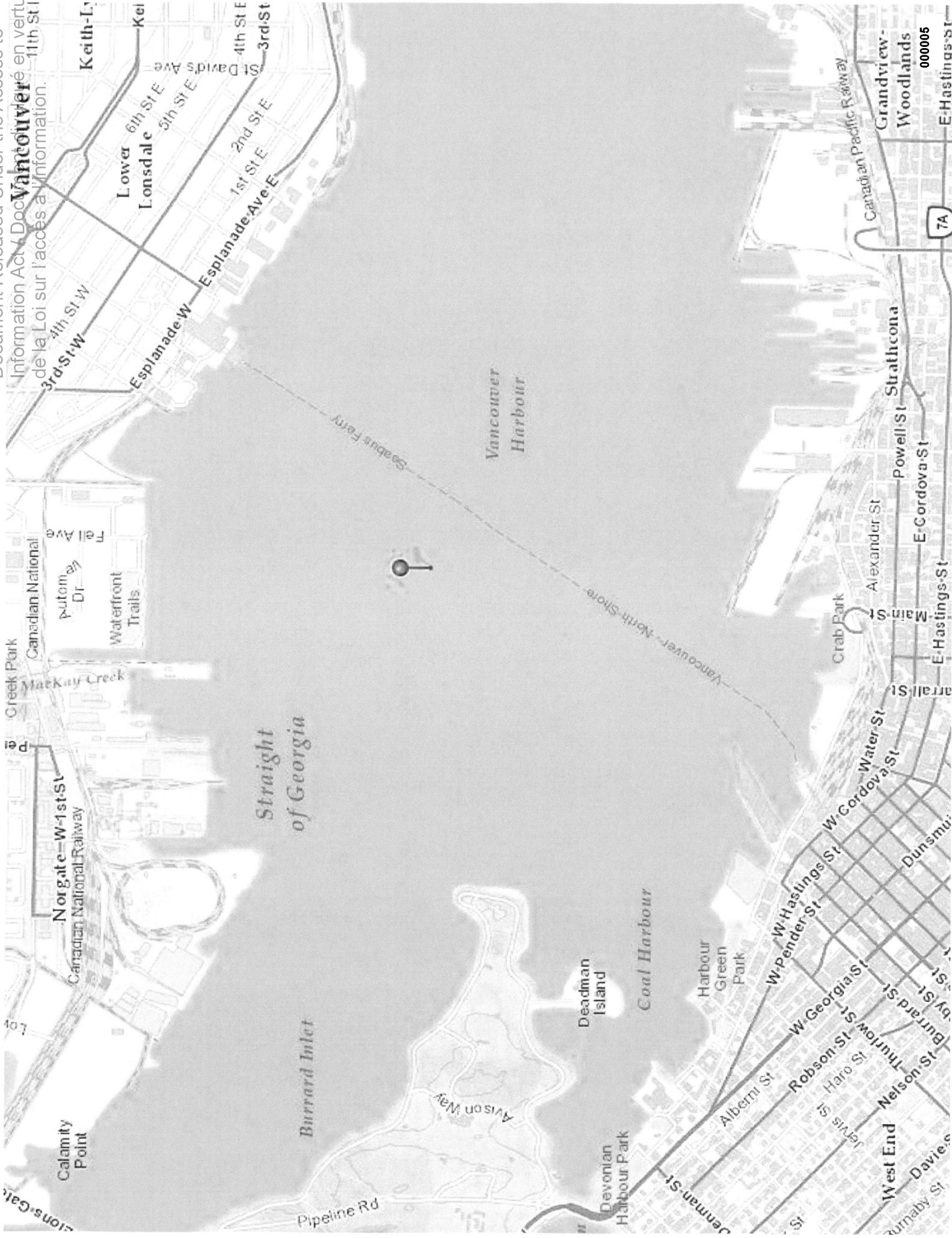


Alerting Desk Officer, Canadian Coast Guard – Western Region  
Fisheries and Oceans Canada / Government of Canada  
[roc1cor1@dfo-mpo.gc.ca](mailto:roc1cor1@dfo-mpo.gc.ca) / Tel: 250-480-2772 Cell: [REDACTED]

**Pollution Reporting Line: 1-800-889-8852**

Agent responsable des alertes, Garde côtière Canadienne, Région de l'Ouest  
Pêches et Océans Canada / Gouvernement du Canada  
[roc1cor1@dfo-mpo.gc.ca](mailto:roc1cor1@dfo-mpo.gc.ca) / Tel. : 250-480-2772 Cell. : [REDACTED]

**Ligne de signalement de pollution: 1-800-889-8852**



**D'sa, Leslie**

**From:** ROC1 / COR1 (DFO/MPO)  
**Sent:** March-17-19 1:09 AM  
**Subject:** 0201 - ALERT - 2019 - POL - ROC – CARAVOS HARMONY VANCOUVER HARBOUR - UPDATE#1, 2019-03-17, 0103PDT  
**Attachments:** VANCOUVER HARBOUR.JPG

0201 - ALERT - 2019 - POL - ROC – CARAVOS HARMONY VANCOUVER HARBOUR - UPDATE#1, 2019-03-17, 0103PDT  
 CCG 158 is on scene, no pollution from either vessel reported. CCG 158 is investigating the area. CCG MOYTEL is stood down.  
 BC MOE and CCG ER duty officer are in communication.  
 Standby for updates.  
 JB/ROC

0201 - ALERT - 2019 - POL - ROC – CARAVOS HARMONY VANCOUVER HARBOUR - INITIAL  
 CANADIAN COAST GUARD – WESTERN REGION – REGIONAL OPERATIONS CENTRE

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LOCATION/POSITION :	VANCOUVER HARBOUR		
TYPE OF POLLUTANT:	UNKNOWN		
QUANTITY:	UNKNOWN	COLOUR/ODOUR:	
ORIGIN:	DEEP SEA CARAVOS HARMONY AND DEEP SEA PAN ACACIA		
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PICTURES:	N/A		
<b>VESSEL INFORMATION (IF APPLICABLE)</b>			
VESSEL NAME:	CARAVOS HARMONY	/	PAN ACACIA
CALL SIGN AND MMSI:	V7ZH2	/	3FUG9
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ADDITIONAL INFORMATION:	DAMAGE TO BOW	/	HAS 10FT X 10FT HOLE ABOVE PORT HATCH
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VANCOUVER HM (ONLY WITHIN HARBOUR OR SHIP BOUND FOR HARBOUR)			
Area MCTS Centre			
DFO PUBLIC AFFAIRS			

(NEWS POTENTIAL ONLY)

ROC OFFICER:

JFS

REGIONAL OPERATIONS CENTRE - WESTERN

CANADIAN COAST GUARD/GOVERNMENT OF CANADA

[ROC1-COR1.MPO@dfo-mpo.gc.ca](mailto:ROC1-COR1.MPO@dfo-mpo.gc.ca) /TEL (hotline) : 1-800-889-8852 /

TEL (non-emergency): 250-480-2772 / BB: [REDACTED]

Fisheries and Oceans  
CanadaPêches et Océans  
CanadaCanadian  
Coast GuardGarde côtière  
canadienne

Alerting Desk Officer, Canadian Coast Guard – Western Region  
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**D'sa, Leslie**

**From:** ROC1 / COR1 (DFO/MPO)  
**Sent:** March-17-19 1:26 AM  
**Subject:** 0201 - ALERT - 2019 - POL - ROC – CARAVOS HARMONY VANCOUVER HARBOUR - UPDATE#2, 2019-03-17, 0123PDT  
**Attachments:** VANCOUVER HARBOUR.JPG; DGIR 184574.pdf

0201 - ALERT - 2019 - POL - ROC – CARAVOS HARMONY VANCOUVER HARBOUR - UPDATE#2, 2019-03-17, 0123PDT

CCG 158 is on scene and communicating with the ER duty officer. No pollution observed.

CCG 158 will document vessels attitude.

Standby for update

JB/ROC

0201 - ALERT - 2019 - POL - ROC – CARAVOS HARMONY VANCOUVER HARBOUR - UPDATE#1, 2019-03-17, 0103PDT

CCG 158 is on scene, no pollution from either vessel reported. CCG 158 is investigating the area. CCG MOYTEL is stood down.

BC MOE and CCG ER duty officer are in communication.


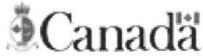
Standby for updates.

JB/ROC

0201 - ALERT - 2019 - POL - ROC – CARAVOS HARMONY VANCOUVER HARBOUR - INITIAL

CANADIAN COAST GUARD – WESTERN REGION – REGIONAL OPERATIONS CENTRE

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ROC OFFICER:	JFS
REGIONAL OPERATIONS CENTRE - WESTERN CANADIAN COAST GUARD/GOVERNMENT OF CANADA ROC1-COR1.MPO@dfo-mpo.gc.ca /TEL (hotline) : 1-800-889-8852 / TEL (non-emergency): 250-480-2772 / BB: [REDACTED]	
 Fisheries and Oceans Canada  Canadian Coast Guard	Pêches et Océans Canada  Gardie côtière canadienne
	

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**D'sa, Leslie**

**From:** ROC1 / COR1 (DFO/MPO)  
**Sent:** March-17-19 12:35 AM  
**To:** Brady, Jeff  
**Subject:** FW: 0176-2019-MOR-VIC-CARAVOS HARMONY/V7ZH2 LOSS OF POWER UPDATE #1

Just in, looks like some serious damage

ROC Alerting Desk  
250-480-2772

**Cc:** Ahmed, Mansoor <mansoor.ahmed@tc.gc.ca>  
**Subject:** 0176-2019-MOR-VIC-CARAVOS HARMONY/V7ZH2 LOSS OF POWER UPDATE #1

UPDATE #1 3/17 0030 PDT

TUG OCEAN GORDON REPORTS THE PAN ACACIA HAS A HOLE APROXIMATELY 10 FEET X 10 FEET ABOVE THE PORT HATCH.

CARAVOS HARMONY HAS DAMAGED TO THE BOW.

GENERAL DATA – MARINE OCCURRENCE REPORT					
VESSEL NAME/CALL SIGN/REG :		CARAVOS HARMONY/V7ZH2			
JRCC INCIDENT # :	V19-	PRIORITY:	-	BROADCAST:	-
INCIDENT START TIME:	17/Mar/2019 0020 PDT				
INCIDENT END TIME:	Click here to enter a date. Click here to enter text.				
NATURE OF INCIDENT:	LOSS OF POWER - COLLISION				
PERSONS ON BOARD:	LOSS OF LIFE:		No		
POSITION (GPS / GEOGRAPHIC):	VANCOUVER - 49.18.06.2N 123.05.45.6W				
VESSEL PARTICULARS					
LOA:	229.00	TYPE:	BULKER	VRN/CFV #:	
MMSI:	538004825	GRT:	44289	IMO:	9595589
DESTINATION:	VANCOUVER – ANCHORAGE D	LAST PORT:	SEATTLE, WA	CARGO:	
FLAG:	MARSHALL ISLANDS	OWNER/ AGENT CONTACT:		SHIP PHONE/SAT PHONE:	
ADDITIONAL VESSEL DETAILS:					
SITUATION DETAILS					
SITREP/RESOLUTION:		AFTER CLEARING FIRST NARROWS VESSEL LOSES POWER.			



BEFORE ANY TUGS CAN ARRIVE TO ASSIST, THE VESSEL COLLIDES WITH THE PAN ACACIA/ 3FUG9 AT ANCHORAGE A.

TUG SEASPAN RAVEN IS ON SCENE AND ASSISTING

INTENTIONS OF MASTER:

ON-SCENE ASSISTANCE:

POLLUTION/NAV HAZARD:

#### WEATHER DETAILS

VISIBILITY:

WIND (KNOTS):

SEA STATE:

TIDE/CURRENT:

#### ALERT LIST (NAME AND DATE/TIME OF VERBAL ALERT)

CCG-W ER DUTY OFFICER

(IF POLLUTION PRESENT OR RISK OF DISCHARGE)

Click here to enter a date. Click here to enter text.

TSB SAFETY OFFICER

(COMMERCIAL VESSEL ONLY OR LOSS OF LIFE ON ANY VESSEL)

Click here to enter a date. Click here to enter text.

VANCOUVER HBR MASTER

(ONLY IF WITHIN OR BOUND FOR VANCOUVER HARBOUR )

Click here to enter a date. Click here to enter text.

Click here to enter a date. Click here to enter text.

MCTS OFFICER:

DG

MCTS WATCH SUPERVISOR:

SO

VICTORIA MARINE COMMUNICATIONS AND TRAFFIC SERVICES

CANADIAN COAST GUARD/GOVERNMENT OF CANADA

SUPERVISOR.VICTORIA@INNAV.GC.CA /TEL: 250-363-6333 | 1-800-661-9202 / FAX: 250-363-6556



Fisheries and Oceans  
Canada

Pêches et Océans  
Canada

Canadian  
Coast Guard

Garde côtière  
canadienne



**D'sa, Leslie**

---

**From:** ROC1 / COR1 (DFO/MPO)  
**Sent:** March-17-19 11:19 PM  
**To:** Brady, Jeff  
**Subject:** FW: Port State Control inspection of MV PAN ACACIA-Detained

ROC Alerting Desk  
250-480-2772

-----Original Message-----

From: Ahmed, Mansoor <mansoor.ahmed@tc.gc.ca>  
Sent: 2019-March-17 11:17 PM  
To: Sitcen HQ / Centre d'intervention AC (TC) <TC.SitcenHQ-CentredinterventionAC.TC@tc.gc.ca>  
Cc: Supervisor.Victoria <Supervisor.Victoria@innav.gc.ca>; Supervisor.Rupert <Supervisor.Rupert@innav.gc.ca>;  
ROC1 / COR1 (DFO/MPO) <ROC1COR1@dfo-mpo.gc.ca>  
Subject: Port State Control inspection of MV PAN ACACIA-Detained

Port State Control inspection of MV PAN ACACIA is complete now and the vessel is detained.

Best Regards,

Mansoor Ahmed  
604-908-2026

**D'sa, Leslie**

---

**From:** ROC1 / COR1 (DFO/MPO)  
**Sent:** March-17-19 8:03 PM  
**To:** Brady, Jeff  
**Subject:** FW: PSC Inspection of CAVAROS HARMONY - Detention

ROC Alerting Desk  
250-480-2772

-----Original Message-----

From: Ahmed, Mansoor <mansoor.ahmed@tc.gc.ca>  
Sent: 2019-March-17 8:01 PM  
To: Supervisor.Victoria <Supervisor.Victoria@innav.gc.ca>; Supervisor.Rupert <Supervisor.Rupert@innav.gc.ca>;  
ROC1 / COR1 (DFO/MPO) <ROC1COR1@dfo-mpo.gc.ca>  
Subject: PSC Inspection of CAVAROS HARMONY - Detention

FYI Below.

Regards,  
Mansoor Ahmed  
SDMSI  
604-908-2026

---

From: Ahmed, Mansoor  
Sent: March 17, 2019 10:57 PM  
To: Sitcen HQ / Centre d'intervention AC (TC)  
Cc: Irani, Khushru; Mangat, Paramjeet; Rawat, Shishir; Wilson, John; Trager, Diana  
Subject: PSC Inspection of CAVAROS HARMONY - Detention

Transport Canada. Marine Safety, Port State Control inspectors conducted PSC inspection of MV CAVAROS HARMONY and as a result the vessel is detained.

Best Regards,

Mansoor Ahmed  
604-908-2026

**D'sa, Leslie**

---

**From:** ROC1 / COR1 (DFO/MPO)  
**Sent:** March-17-19 12:44 AM  
**To:** Brady, Jeff  
**Subject:** Update#1, 0040pdt

Update 1:

-158 on route ETA 10 minutes.  
-Sea Span Raven Tug on scene.  
-Standby for updates

Alerting Desk Officer, Canadian Coast Guard – Western Region  
Fisheries and Oceans Canada / Government of Canada  
[roc1cor1@dfo-mpo.gc.ca](mailto:roc1cor1@dfo-mpo.gc.ca) / Tel: 250-480-2772 Cell: [REDACTED]

**Pollution Reporting Line: 1-800-889-8852**

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**Ligne de signalement de pollution: 1-800-889-8852**

**D'sa, Leslie**

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**From:** ROC1 / COR1 (DFO/MPO)  
**Sent:** March-17-19 1:21 AM  
**To:** Brady, Jeff  
**Subject:** Update#3 0120pdt

Update#3:

- JRCC hands over incident to ER @ 0115PDT
- CCG 158 is investigating the area
- Deep sea Pan Acacia is not taking on water and will be towed to Anchorage D

Alerting Desk Officer, Canadian Coast Guard – Western Region  
Fisheries and Oceans Canada / Government of Canada  
[roc1cor1@dfo-mpo.gc.ca](mailto:roc1cor1@dfo-mpo.gc.ca) / Tel: 250-480-2772 Cell: [REDACTED]

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**From:** ROC1 / COR1 (DFO/MPO)  
**Sent:** March-17-19 1:57 AM  
**To:** Brady, Jeff  
**Subject:** Update#4, 0156pdt

Update#4:

- CCG 158 is returning to base

Alerting Desk Officer, Canadian Coast Guard – Western Region  
Fisheries and Oceans Canada / Government of Canada  
[roc1cor1@dfo-mpo.gc.ca](mailto:roc1cor1@dfo-mpo.gc.ca) / Tel: 250-480-2772 Cell: [REDACTED]

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**Ligne de signalement de pollution: 1-800-889-8852**



Incident #: V19-0297 (19-0020 KIT)  
Resource Name: CCG Kitsilano

## SAR mission report

### Details on the incident

Incident occurred at: **03/17/19 00:25**  
Position: Navy Buoys Van Harbour  
Distance from shore: \_\_\_\_\_ N.M.  
Latitude: \_\_\_\_\_ 'N Longitude: \_\_\_\_\_ 'W  
Incident type: Collision-Boat  
Alert type: Telephone  
Incident cause: Engine Problems  
In ☐ distress ☐ imminent danger ☒ not in danger

### DETAILS ON UNIT ASSISTED

Name: \_\_\_\_\_  
Registration #: \_\_\_\_\_ Call sign: \_\_\_\_\_  
Type: Bulk Carrier  
Activity: \_\_\_\_\_  
Length: \_\_\_\_\_ M. Tonnage: \_\_\_\_\_ G.T.  
Draught: \_\_\_\_\_ M. Nationality: \_\_\_\_\_  
Comments: \_\_\_\_\_

Captain: \_\_\_\_\_  
DOB: \_\_\_\_\_ Age: \_\_\_\_\_ Sex: \_\_\_\_\_  
Owner: \_\_\_\_\_  
Tel: \_\_\_\_\_  
Address: \_\_\_\_\_

POB: \_\_\_\_\_ Saved: \_\_\_\_\_ Lost: \_\_\_\_\_ Missing: \_\_\_\_\_

### Operation description (UTC)

Action taken: Monitoring  
Detection Method: Visual - Flares  
Resource initial pos'n: Kitsilano  
Dist. resource/incident: 5.80 N.M.  
Time paged: 03/17/19 00:25  
Time tasked: 03/17/19 00:25  
Departed at: 03/17/19 00:35  
Arrived on scene at: 03/17/19 00:50  
Operation ended at: 03/17/19 01:53  
Returned to normal OPs at: 03/17/19 02:30  
Total time off (transit): 000:00 (HHH:MM)  
Total time off (on scene): 000:00 (HHH:MM)  
Towing distance: \_\_\_\_\_ N.M.  
Towing duration: 000:00 (HHH:MM)  
Daughter boat total utilization: 000:00 (HHH:MM)  
Resource capability/suitability: 3  
SAR Equipment capability/suitability: 3  
Crew complement suitability/adequacy: 3  
Crew training/skill level suit/adequacy: 3  
Number of persons rescued by resource  
SAR specialist used ☐ FRC used ☐

### OTHER RESOURCES INVOLVED IN THE INCIDENT

### Weather conditions

General: Clear or Part Cloudy  
Waves/swell max. height: 0.0 M.  
Wind Speed: \_\_\_\_\_ knots  
Obs. time: 03/17/19  
Obs. position: On Scene  
Wind dir: \_\_\_\_\_ Against current(Y/N): N  
Tide State: Flood  
Vis.: 1 N.M. Air: \_\_\_\_\_ C Sea: \_\_\_\_\_ C  
Clouds: \_\_\_\_\_  
Ice: \_\_\_\_\_

### Critical Factors (Max 6)

Night Operation

### SIGNATURE MASTER/OPERATOR

Tyler Payne

17101119

### Significant Events

0025 - Paged and tasked by RCC for deep sea v/l collision at anchorage A.  
0035 - 158 dept 3pob, vak/rcc adv.  
0040 - Comms with VTS & CG Radio. Update, deep sea v/l "Caravos Harmony" was out bound, loaded, v/l lost power in Burrard Inlet & collided with deep sea v/l "Pan Acacia" at anchorage A.  
0045 - Comms made with both v/l's. No injuries on board. No water ingress & no pollution.  
0050 - O/S adv RCC. "Caravos Harmony" currently heaving anchor. Seaspan tug "Raven" o/s for assistance. Bound for anchorage D. Heavy damage to port side of v/l's bow.  
0100 - V/L "Pan Acacia" has 10x15 hole in starboard side mid-ships, 15' above water line. Crew investigating. No pollution found, hold was empty.  
0115 - Update RCC on all findings. Stood down from SAR tasking. Handover to Environmental Response.  
0120 - Comms made with ER supervisor. Adv findings.  
0125 - Draft marks taken from "Pan Acacia"


Annex 1

Incident No: V19-0297 (19-0020 KIT )  
Resource Name: CCG Kitsilano

## SAR mission report

0143 - "Caravos Harmony" anchored at anchorage D. Draft marks taken.  
0150 - Comms made with both v/l's. confirm no injuries, no pollution, no water ingress & no help needed. Both v/l's confirm.  
0153 - Update ER/VAK. Stood down. RTB  
0218 - SAB. vak/rcc adv

SIGNATURE MASTER/OPERATOR

  
Tyler Payne  
17107 119

**Joy, Nickolas**

**From:** Supervisor.Victoria <Supervisor.Victoria@innav.gc.ca>  
**Sent:** March-17-19 12:30 AM  
**To:** CBSA Operations; NCC / CCN (DFO/MPO); CCG Western Aids to Navigation / Aides à la Navigation GCC (DFO/MPO); Payne, Stephen; Jourdenais, Marc; Carlow, Theresa; ROC1 / COR1 (DFO/MPO); ROC1 / COR1 (DFO/MPO); Evans, Clay; Clinton. Rebeiro@tsb-bst.gc.ca (Clinton.Rebeiro@tsb-bst.gc.ca); PAC Radio Room / Salle de radio PAC (DFO/MPO); Environment Canada (ec.cnue-neec.ec@canada.ca); Gascon, Julie; Glenn Budden (Glenn.Budden@tsb-bst.gc.ca); Harbour Master - Vancouver; Harbour Master- Victoria ; Harbour Master-Victoria Assistant ; Brady, Jeff; Victoria JRCC [DND]; Carrigan, Kevin; Fraser, Lee (Elizabeth); Mcculloch, Lisa; CCG MCTS RHQ Western / GCC SCTM bureau régional lOuest (DFO/MPO); Statham, Art; Mohan Raman (Mohan.Raman@tsb-bst.gc.ca); CCG West MSOC / COSM Ouest GCC (DFO/MPO); Pacific Pilotage Authority (info@ppa.gc.ca); Ramanbir. Mangat@tsb-bst.gc.ca (Ramanbir.Mangat@tsb-bst.gc.ca); RCMP West Coast Marine Services; Ciammaichella, Rita; SITCEN [TC]; TC Marine Safety - Vancouver; Transportation Safety Board - Pacific; Speed, Terry; Zillur. Rahman@tsb-bst.gc.ca (Zillur.Rahman@tsb-bst.gc.ca)  
**Cc:** Ahmed, Mansoor  
**Subject:** 0176-2019-MOR-VIC-CARAVOS HARMONY/V7ZH2 LOSS OF POWER INITIAL

<b>GENERAL DATA – MARINE OCCURRENCE REPORT</b>					
VESSEL NAME/CALL SIGN/REG :		CARAVOS HARMONY/V7ZH2			
JRCC INCIDENT # :	V19-	PRIORITY:	-	BROADCAST:	-
INCIDENT START TIME:	17/Mar/2019 0020 PDT				
INCIDENT END TIME:	Click here to enter a date. Click here to enter text.				
NATURE OF INCIDENT:	LOSS OF POWER - COLLISION				
PERSONS ON BOARD:		LOSS OF LIFE:	No		
POSITION (GPS / GEOGRAPHIC):	VANCOUVER - 49.18.06.2N 123.05.45.6W				
<b>VESSEL PARTICULARS</b>					
LOA:	229.00	TYPE:	BULKER	VRN/CFV #:	
MMSI:	538004825	GRT:	44289	IMO:	9595589
DESTINATION:	VANCOUVER – ANCHORAGE D	LAST PORT:	SEATTLE, WA	CARGO:	
FLAG:	MARSHALL ISLANDS	OWNER/ AGENT CONTACT:		SHIP PHONE/SAT PHONE:	
ADDITIONAL VESSEL DETAILS:					
<b>SITUATION DETAILS</b>					
SITREP/RESOLUTION:		AFTER CLEARING FIRST NARROWS VESSEL LOSES POWER.			
		BEFORE ANY TUGS CAN ARRIVE TO ASSIST, THE VESSEL COLLIDES WITH THE PAN ACACIA/ 3FUG9 AT ANCHORAGE A.			
		TUG SEASPAN RAVEN IS ON SCENE AND ASSISTING			

INTENTIONS OF MASTER:			
ON-SCENE ASSISTANCE:			
POLLUTION/NAV HAZARD:			
<b>WEATHER DETAILS</b>			
VISIBILITY:		WIND (KNOTS):	
SEA STATE:		TIDE/CURRENT:	
<b>ALERT LIST (NAME AND DATE/TIME OF VERBAL ALERT)</b>			
CCG-W ER DUTY OFFICER (IF POLLUTION PRESENT OR RISK OF DISCHARGE)		Click here to enter a date. Click here to enter text.	
TSB SAFETY OFFICER (COMMERCIAL VESSEL ONLY OR LOSS OF LIFE ON ANY VESSEL)		Click here to enter a date. Click here to enter text.	
VANCOUVER HBR MASTER (ONLY IF WITHIN OR BOUND FOR VANCOUVER HARBOUR)		Click here to enter a date. Click here to enter text.	
		Click here to enter a date. Click here to enter text.	
MCTS OFFICER:		DG	
MCTS WATCH SUPERVISOR:		SO	
<b>VICTORIA MARINE COMMUNICATIONS AND TRAFFIC SERVICES</b> <b>CANADIAN COAST GUARD/GOVERNMENT OF CANADA</b> <b>SUPERVISOR.VICTORIA@INNAV.GC.CA /TEL: 250-363-6333   1-800-661-9202 / FAX: 250-363-6556</b>			
 <div> <div> <div>Marine and Oceans</div> <div>Canada</div> </div> <div> <div>Canadian</div> <div>Coast Guard</div> </div> </div> <div> <div>Marine et Océans</div> <div>Canada</div> </div> <div> <div>Garde côtière</div> <div>canadienne</div> </div>			
			

Shift Supervisor - Victoria MCTS Centre  
 Telephone: 250-363-6333  
 Facsimile: 250-363-6556  
[Supervisor.Victoria@innav.gc.ca](mailto:Supervisor.Victoria@innav.gc.ca)

Victoria Marine Communications & Traffic Services  
 P.O. Box 6000  
 9860 West Saanich Road  
 Sidney, BC, Canada, V8L 4B2

## Joy, Nickolas

---

**From:** EMBC ECC1 EMBC:EX <SGPEP.ECC1@gov.bc.ca>  
**Sent:** March-17-19 1:13 AM  
**To:** ROC1 / COR1 (DFO/MPO); Brett, Rhonda ENV:EX; LMR Website Contact ENV:EX; ENV  
EEP Duty Manager ENV:EX; Fuller, Ryan ENV:EX; MacDougall, Christy ENV:EX; Meeks,  
Ken ENV:EX; Pope, Mitch ENV:EX; Robertson, Ashley B ENV:EX  
**Subject:** DGIR 184574  
**Attachments:** DGIR 184574.pdf

**Operations Officer** | Emergency Coordination Centre  
Emergency Management BC  
Block A – Suite 200, 2261 Keating Cross Rd  
Saanichton, BC CANADA V8M 2A5

24 Hour Emergency: 1.800.663.3456

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Management BC

## Dangerous Goods Incident Report

DGIR 184574 - INLAND

Category : Code 1

Incident Date Time : 2019-03-17 00:36

MCTS # :

<b>Spiller :</b>	UNKNOWN		
<b>Location :</b>	VANCOUVER HARBOUR		
<b>Area :</b>	VANCOUVER	<b>EMBC Region :</b> SWE	<b>MOE Region :</b> Lower Mainland Region
<b>Material(s):</b>	POTENTIAL		
<b>Amount(s):</b>	UNKNOWN		
<b>Received From:</b>			
<b>Caller A :</b> EMAIL		<b>Caller B :</b> JRCC MCTS 1709	
<b>Org :</b> CCG-ROC		<b>Org :</b>	
<b>Phone :</b>		<b>Phone :</b>	
<b>Alternate :</b>		<b>Alternate :</b>	
<b>Time :</b>		<b>Time :</b>	
<b>Received by EMBC Operations Officer :</b> JACOB		<b>When Received :</b> 2019-03-17 01:02	
<b>Affected Environment :</b> Marine		<b>Other :</b>	
<b>Type of Spilling :</b>		<b>Other Spill Type :</b>	
Equipment Failure			
<b>Accidents:</b>			
<b>Sector:</b> Unknown			
<b>Cause :</b>			
Deep sea Caravos Harmony lost power after passing First Narrows and collided with deep sea Acacia at Anchorage A. See demand below. No injuries or pollution reported as of 00:50. CCG ER DO has been notified and is assessing. Kitsilano Life Boat station tasked. CCG ACV Moytel tasked.			
Damage:			
Caravos Harmony (V7ZH2) 229M, bulk carrier: damage to bow			
Pan Acacia (3FUG9) 291M, bulk carrier has 10ft x 10ft hole above port hatch			
0201 - ALERT - 2019 - POL - ROC - CARAVOS HARMONY VANCOUVER HARBOUR - UPDATE#1, 2019-03-17, 0103PDT			
CCG 158 is on scene, no pollution from either vessel reported. CCG 158 is investigating the area. CCG MOYTEL is stood down			
BC MOE and CCG ER duty officer are in communication.			
Standby for updates			
<b>Response :</b>			
00:30 CCG ER DO			
<b>Jurisdiction :</b>			
<b>Task # :</b> 196463	<b>Amount :</b> \$50	<b>Issued To :</b> RYAN FULLER	
<b>Notification :</b>			
01:08 LM MOE RO Ryan Fuller, 01.10 briefed on call back code 1 FED/PROV			
01:11 Briefed PDM David Stanford - Notify RDM.			
01:12 Briefed RDM Ian Foss			
01:13 Briefed NEEC			
01:15 Emailed MOE Surrey/CCG-ROC			



**Joy, Nickolas**

---

**From:** EMBC ECC1 EMBC:EX <SGPEP.ECC1@gov.bc.ca>  
**Sent:** March-17-19 1:29 AM  
**To:** ROC1 / COR1 (DFO/MPO); Brett, Rhonda ENV:EX; LMR Website Contact ENV:EX; ENV  
EEP Duty Manager ENV:EX; Fuller, Ryan ENV:EX; MacDougall, Christy ENV:EX; Meeks,  
Ken ENV:EX; Pope, Mitch ENV:EX; Robertson, Ashley B ENV:EX  
**Subject:** DGIR 184574 Update 1  
**Attachments:** DGIR 184574 Update 1.pdf

**Operations Officer** | Emergency Coordination Centre  
Emergency Management BC  
Block A – Suite 200, 2261 Keating Cross Rd  
Saanichton, BC CANADA V8M 2A5

24 Hour Emergency: 1.800 663.3456

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## Dangerous Goods Incident Report (DGIR)

**DGIR 184574 - UPDATE # 1**

**Type :** INLAND UPDATE  
**Subject :** POTENTIAL  
**Task # :** 196463  
**Assigned To :** RYAN FULLER  
**Incident Area :** VANCOUVER

**Original Entry Logged :** 2019-03-17 01:02  
**Amount :** \$50  
**ASE Number :**  
**EMBC Region :** SWE  
**MOE Region :** Lower Mainland Region  
**MCTS# :**

**Location :** VANCOUVER HARBOUR

**Caller :** EMAIL  
**Organization :** CCG-ROC  
**Primary No :**  
**Alt No :**

**This Update Logged :** 2019-03-17 01:26  
**EMBC Operations Officer :** JACOB

**Details :**

CCG 158 is on scene and communicating with the ER duty officer. No pollution observed. CCG 158 will document vessels attitude.

**Notification :**

01:26 Briefed MOE RO Ryan Fuller  
01:27 Briefed PDM David Stanford  
01:30 Emailed MOE Surrey/CCG-ROC

**Joy, Nickolas**

---

**From:** Ahmed, Mansoor <mansoor.ahmed@tc.gc.ca>  
**Sent:** March-17-19 1:39 AM  
**To:** Supervisor.Victoria; ROC1 / COR1 (DFO/MPO)  
**Cc:** Siddique, Abdulla Omar; Wilson, John; Trager, Diana; Rawat, Shishir  
**Subject:** Collision and Power loss- MV PAN ACACIA

---

Transport Canada, Marine Safety duty officer ( Mansoor Ahmed ) gives following instructions to the Master of MV PAN ACACIA;

- Provide a report of power loss and collision at the earliest.
- Provide the details of damage, pollution and any injury or fatality.
- Is the vessel seaworthy and or taking water.

Master is fully responsible for safe operations and safety at all times and only proceeds if it is safe to do.

All communications and reports to be sent to MCTS.

Regards

Mansoor Ahmed

SDMSI

604-908-2026

## Joy, Nickolas

**From:** ROC1 / COR1 (DFO/MPO)  
**Sent:** March-17-19 2:30 AM  
**Subject:** 0201 - ALERT - 2019 - POL - ROC – CARAVOS HARMONY VANCOUVER HARBOUR - UPDATE#3, 2019-03-17, 0226PDT

### 0201 - ALERT - 2019 - POL - ROC – CARAVOS HARMONY VANCOUVER HARBOUR - UPDATE#3, 2019-03-17, 0226PDT

CCG confirms no pollution observed. CCG 158 stood down.

No further CCG ER actions at this time.

JF/ROC

### 0201 - ALERT - 2019 - POL - ROC – CARAVOS HARMONY VANCOUVER HARBOUR - UPDATE#2, 2019-03-17, 0123PDT

CCG 158 is on scene and communicating with the ER duty officer. No pollution observed.

CCG 158 will document vessels attitude.

Standby for update

JB/ROC

### 0201 - ALERT - 2019 - POL - ROC – CARAVOS HARMONY VANCOUVER HARBOUR - UPDATE#1, 2019-03-17, 0103PDT

CCG 158 is on scene, no pollution from either vessel reported. CCG 158 is investigating the area. CCG MOYTEL is stood down.

BC MOE and CCG ER duty officer are in communication.



Standby for updates.

JB/ROC

### 0201 - ALERT - 2019 - POL - ROC – CARAVOS HARMONY VANCOUVER HARBOUR - INITIAL

#### CANADIAN COAST GUARD – WESTERN REGION – REGIONAL OPERATIONS CENTRE

<b>GENERAL INFORMATION- POLLUTION REPORT</b>			
DATE/TIME OF REPORT:	2019-03-17 00:36PDT		
DATE/TIME OF SPILL:	POTENTIAL		
REPORTING PARTY/CONTACT INFO:	JRCC/MCTS VIA 1709		
<b>SITUATION DETAILS</b>			
LOCATION/POSITION :	VANCOUVER HARBOUR		
TYPE OF POLLUTANT:	UNKNOWN		
QUANTITY:	UNKNOWN	COLOUR/ODOUR:	
ORIGIN:	DEEP SEA CARAVOS HARMONY AND DEEP SEA PAN ACACIA		
WEATHER CONDITIONS:	CLEAR, LIGHT WINDS		
ADDITIONAL INFORMATION:	DEEP SEA CARAVOS HARMONY LOSS POWER AFTER PASSING FIRST NARROWS AND COLLIDED WITH THE DEEP SEA PAN ACACIA AT ANCHORAGE A. SEE DAMAGE BELOW. NO INJURIES OR POLLUTION REPORTED AS OF 00:50PDT. CCG ER DO HAS BEEN NOTIFIED AND IS ASSESSING. KITSILANO LIFE BOAT STATION TASKED, CCG ACV MOYTEL TASKED.		
PICTURES:	N/A		
<b>VESSEL INFORMATION (IF APPLICABLE)</b>			
VESSEL NAME:	CARAVOS HARMONY	/	PAN ACACIA
CALL SIGN AND MMSI:	V7ZH2	/	3FUG9
OVERALL LENGTH (LOA) :	229M	/	291M

VESSEL TYPE:	BULK CARRIER	/	BULK CARRIER
OWNER/AGENT/FLAG:	MARSHALL IS	/	PANAMA
ADDITIONAL INFORMATION:	DAMAGE TO BOW	/	HAS 10FT X 10FT HOLE ABOVE PORT HATCH
ALERT LIST (NAME AND DATE/TIME OF VERBAL ALERT)			
CCG-W ER DUTY OFFICER	2019-03-17	00:30PDT	JB
TC MARINE SAFETY – VANCOUVER			
(ONLY IF A VESSEL IS INVOLVED)			
VANCOUVER HM			
(ONLY WITHIN HARBOUR OR SHIP BOUND FOR HARBOUR)			
Area MCTS Centre			
DFO PUBLIC AFFAIRS			
(NEWS POTENTIAL ONLY)			
ROC OFFICER:	JFS		
REGIONAL OPERATIONS CENTRE - WESTERN			
CANADIAN COAST GUARD/GOVERNMENT OF CANADA			
ROC1-COR1.MPO@dfo-mpo.gc.ca /TEL (hotline) : 1-800-889-8852 /			
TEL (non-emergency): 250-480-2772 / BB: [REDACTED]			
<div>  <div> <div>Fisheries and Oceans Canada</div> <div> <div>Canadian Coast Guard</div> <div>Garde côtière canadienne</div> </div> </div> <div>  </div> </div>			

Alerting Desk Officer, Canadian Coast Guard – Western Region  
Fisheries and Oceans Canada / Government of Canada

[roc1cor1@dfo-mpo.gc.ca](mailto:roc1cor1@dfo-mpo.gc.ca) / Tel: 250-480-2772 Cell: [REDACTED]

**Pollution Reporting Line: 1-800-889-8852**

Agent responsable des alertes, Garde côtière Canadienne, Région de l'Ouest  
Pêches et Océans Canada / Gouvernement du Canada

[roc1cor1@dfo-mpo.gc.ca](mailto:roc1cor1@dfo-mpo.gc.ca) / Tel. : 250-480-2772 Cell. : [REDACTED]

**Ligne de signalement de pollution: 1-800-889-8852**

**Joy, Nickolas**

---

**From:** EMBC ECC1 EMBC:EX <SGPEP.ECC1@gov.bc.ca>  
**Sent:** March-17-19 2:37 AM  
**To:** ROC1 / COR1 (DFO/MPO); Brett, Rhonda ENV:EX; LMR Website Contact ENV:EX; ENV  
EEP Duty Manager ENV:EX; Fuller, Ryan ENV:EX; MacDougall, Christy ENV:EX; Meeks,  
Ken ENV:EX; Pope, Mitch ENV:EX; Robertson, Ashley B ENV:EX  
**Subject:** DGIR 184574 Update 2  
**Attachments:** DGIR 184574 Update 2.pdf

**Operations Officer** | Emergency Coordination Centre  
Emergency Management BC  
Block A – Suite 200, 2261 Keating Cross Rd  
Saanichton, BC CANADA V8M 2A5

24 Hour Emergency: 1 800.663.3456

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## Dangerous Goods Incident Report (DGIR)

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**DGIR 184574 - UPDATE # 2**

---

**Type :** INLAND UPDATE  
**Subject :** POTENTIAL  
**Task # :** 196463  
**Assigned To :** RYAN FULLER  
**Incident Area :** VANCOUVER

**Original Entry Logged :** 2019-03-17 01:02  
**Amount :** \$100  
**ASE Number :**  
**EMBC Region :** SWE  
**MOE Region :** Lower Mainland Region  
**MCTS# :**

---

**Location :** VANCOUVER HARBOUR

**Caller :** EMAIL  
**Organization :** CCG-ROC  
**Primary No :**  
**Alt No :**

**This Update Logged :** 2019-03-17 02:34  
**EMBC Operations Officer :** JACOB

---

**Details :**

CCG confirms no pollution observed. CCG 158 stood down. No further CCG ER actions at this time.

---

**Notification :**

02:34 LM MOE RO Ryan Fuller, 02:36 briefed on call back.  
02:35 Briefed PDM David Stanford  
02:38 Emailed MOE Surrey/CCG-ROC

---



**Rear, Scott**

**From:** Supervisor.Victoria <Supervisor.Victoria@innav.gc.ca>  
**Sent:** 2019-March-17 12:51 AM  
**To:** CBSA Operations; NCC / CCN (DFO/MPO); CCG Western Aids to Navigation / Aides à la Navigation GCC (DFO/MPO); Payne, Stephen; Jourdenais, Marc; Carlow, Theresa; ROC1 / COR1 (DFO/MPO); ROC1 / COR1 (DFO/MPO); Evans, Clay; Clinton. Rebeiro@tsb-bst.gc.ca (Clinton.Rebeiro@tsb-bst.gc.ca); PAC Radio Room / Salle de radio PAC (DFO/MPO); Environment Canada (ec.cnue-neec.ec@canada.ca); Gascon, Julie; Glenn Budden (Glenn.Budden@tsb-bst.gc.ca); Harbour Master - Vancouver; Harbour Master- Victoria ; Harbour Master-Victoria Assistant ; Brady, Jeff; Victoria JRCC [DND]; Carrigan, Kevin; Fraser, Lee (Elizabeth); Mcculloch, Lisa; CCG MCTS RHQ Western / GCC SCTM bureau régional lOuest (DFO/MPO); Statham, Art; Mohan Raman (Mohan.Raman@tsb-bst.gc.ca); CCG West MSOC / COSM Ouest GCC (DFO/MPO); Pacific Pilotage Authority (info@ppa.gc.ca); Ramanbir. Mangat@tsb-bst.gc.ca (Ramanbir.Mangat@tsb-bst.gc.ca); RCMP West Coast Marine Services; Ciammaichella, Rita; SITCEN [TC]; TC Marine Safety - Vancouver; Transportation Safety Board - Pacific; Speed, Terry; Zillur. Rahman@tsb-bst.gc.ca (Zillur.Rahman@tsb-bst.gc.ca)  
**Cc:** Ahmed, Mansoor  
**Subject:** 0176-2019-MOR-VIC-CARAVOS HARMONY/V7ZH2 LOSS OF POWER UPDATE #2

UPDATE #2 3/17

PAN ACACIA REPORTS NO INJURIES, NO POLLUTION.


CARAVOS HARMNOY REPORTS NO INJURIES, NO POLLUTION.

UPDATE #1 3/17 0030 PDT

TUG OCEAN GORDON REPORTS THE PAN ACACIA HAS A HOLE APROXIMATELY 10 FEET X 10 FEET ABOVE THE PORT HATCH.

CARAVOS HARMONY HAS DAMAGED TO THE BOW.

GENERAL DATA – MARINE OCCURRENCE REPORT					
VESSEL NAME/CALL SIGN/REG :		CARAVOS HARMONY/V7ZH2			
JRCC INCIDENT # :	V19-	PRIORITY:	-	BROADCAST:	-
INCIDENT START TIME:	17/Mar/2019 0020 PDT				
INCIDENT END TIME:	Click here to enter a date. Click here to enter text.				
NATURE OF INCIDENT:	LOSS OF POWER - COLLISION				
PERSONS ON BOARD:		LOSS OF LIFE:	No		
POSITION (GPS / GEOGRAPHIC):	VANCOUVER - 49.18.06.2N 123.05.45.6W				
VESSEL PARTICULARS					
LOA:	229.00	TYPE:	BULKER	VRN/CFV #:	

MMSI:	538004825	GRT:	44289	IMO:	9595589
DESTINATION:	VANCOUVER – ANCHORAGE D	LAST PORT:	SEATTLE, WA	CARGO:	
FLAG:	MARSHALL ISLANDS	OWNER/ AGENT CONTACT:		SHIP PHONE/SAT PHONE:	
ADDITIONAL VESSEL DETAILS:					
<b>SITUATION DETAILS</b>					
SITREP/RESOLUTION:		<p>AFTER CLEARING FIRST NARROWS VESSEL LOSES POWER.</p> <p>BEFORE ANY TUGS CAN ARRIVE TO ASSIST, THE VESSEL COLLIDES WITH THE PAN ACACIA/ 3FUG9 AT ANCHORAGE A.</p> <p>TUG SEASPAN RAVEN IS ON SCENE AND ASSISTING</p>			
INTENTIONS OF MASTER:					
ON-SCENE ASSISTANCE:					
POLLUTION/NAV HAZARD:					
<b>WEATHER DETAILS</b>					
VISIBILITY:		WIND (KNOTS):			
SEA STATE:		TIDE/CURRENT:			
<b>ALERT LIST (NAME AND DATE/TIME OF VERBAL ALERT)</b>					
CCG-W ER DUTY OFFICER (IF POLLUTION PRESENT OR RISK OF DISCHARGE)		Click here to enter a date. Click here to enter text.			
TSB SAFETY OFFICER (COMMERCIAL VESSEL ONLY OR LOSS OF LIFE ON ANY VESSEL)		Click here to enter a date. Click here to enter text.			
VANCOUVER HBR MASTER (ONLY IF WITHIN OR BOUND FOR VANCOUVER HARBOUR)		Click here to enter a date. Click here to enter text.			
		Click here to enter a date. Click here to enter text.			
MCTS OFFICER:		DG			
MCTS WATCH SUPERVISOR:		SO			
<b>VICTORIA MARINE COMMUNICATIONS AND TRAFFIC SERVICES</b> <b>CANADIAN COAST GUARD/GOVERNMENT OF CANADA</b> <b>SUPERVISOR.VICTORIA@INNAV.GC.CA /TEL: 250-363-6333   1-800-661-9202 / FAX: 250-363-6556</b>					
 <div> <div> Fisheries and Oceans Canada </div> <div> Pêches et Océans Canada </div> </div> <div> <div> Communications Canada </div> <div> Communications Canada </div> </div> 					

**Rear, Scott**

---

**From:** Supervisor.Victoria <Supervisor.Victoria@innav.gc.ca>  
**Sent:** 2019-March-17 3:04 AM  
**To:** CBSA Operations; NCC / CCN (DFO/MPO); CCG Western Aids to Navigation / Aides à la Navigation GCC (DFO/MPO); Payne, Stephen; Jourdenais, Marc; Carlow, Theresa; ROC1 / COR1 (DFO/MPO); ROC1 / COR1 (DFO/MPO); Evans, Clay; Clinton.Rebeiro@tsb-bst.gc.ca (Clinton.Rebeiro@tsb-bst.gc.ca); PAC Radio Room / Salle de radio PAC (DFO/MPO); Environment Canada (ec.cnue-neec.ec@canada.ca); Gascon, Julie; Glenn Budden (Glenn.Budden@tsb-bst.gc.ca); Harbour Master - Vancouver; Harbour Master- Victoria ; Harbour Master-Victoria Assistant ; Brady, Jeff; Victoria JRCC [DND]; Carrigan, Kevin; Fraser, Lee (Elizabeth); Mcculloch, Lisa; CCG MCTS RHQ Western / GCC SCTM bureau régional l'Ouest (DFO/MPO); Statham, Art; Mohan Raman (Mohan.Raman@tsb-bst.gc.ca); CCG West MSOC / COSM Ouest GCC (DFO/MPO); Pacific Pilotage Authority (info@ppa.gc.ca); Ramanbir. Mangat@tsb-bst.gc.ca (Ramanbir.Mangat@tsb-bst.gc.ca); RCMP West Coast Marine Services; Ciammaichella, Rita; SITCEN [TC]; TC Marine Safety - Vancouver; Transportation Safety Board - Pacific; Speed, Terry; Zillur. Rahman@tsb-bst.gc.ca (Zillur.Rahman@tsb-bst.gc.ca)  
**Cc:** Ahmed, Mansoor  
**Subject:** 0176-2019-MOR-VIC-CARAVOS HARMONY/V7ZH2 LOSS OF POWER UPDATE #4

UPDATE #4 3/17 0300 PDT

ER REQUESTS THE VESSELS BE QUERIED EVERY HOUR REGARDING THEIR STATUS.

VESSELS QUERIED, NO CHANGE IN STATUS

UPDATE #3 3/17 0200 PDT

WITH THE ASSISTANCE OF THE TUG SEASPAN RAVEN, CARAVOS HARMONY ANCHORS AT ANCHORAGE A.

UPDATE #2 3/17

PAN ACACIA REPORTS NO INJURIES, NO POLLUTION.

CARAVOS HARMNOY REPORTS NO INJURIES, NO POLLUTION.

UPDATE #1 3/17 0030 PDT

TUG OCEAN GORDON REPORTS THE PAN ACACIA HAS A HOLE APROXIMATELY 10 FEET X 10 FEET ABOVE THE PORT HATCH.

CARAVOS HARMONY HAS DAMAGED TO THE BOW.

<b>GENERAL DATA – MARINE OCCURRENCE REPORT</b>					
VESSEL NAME/CALL SIGN/REG :		CARAVOS HARMONY/V7ZH2			
JRCC INCIDENT # :	V19-	PRIORITY:	-	BROADCAST:	-
INCIDENT START TIME:	17/Mar/2019 0020 PDT				
INCIDENT END TIME:	Click here to enter a date. Click here to enter text.				
NATURE OF INCIDENT:	LOSS OF POWER - COLLISION				
PERSONS ON BOARD:		LOSS OF LIFE:	No		
POSITION (GPS / GEOGRAPHIC):	VANCOUVER - 49.18.06.2N 123.05.45.6W				
<b>VESSEL PARTICULARS</b>					
LOA:	229.00	TYPE:	BULKER	VRN/CFV #:	
MMSI:	538004825	GRT:	44289	IMO:	9595589
DESTINATION:	VANCOUVER – ANCHORAGE D	LAST PORT:	SEATTLE, WA	CARGO:	
FLAG:	MARSHALL ISLANDS	OWNER/ AGENT CONTACT:		SHIP PHONE/SAT PHONE:	
ADDITIONAL VESSEL DETAILS:					
<b>SITUATION DETAILS</b>					
SITREP/RESOLUTION:		<p>AFTER CLEARING FIRST NARROWS VESSEL LOSES POWER.</p> <p>BEFORE ANY TUGS CAN ARRIVE TO ASSIST, THE VESSEL COLLIDES WITH THE PAN ACACIA/ 3FUG9 AT ANCHORAGE A.</p> <p>TUG SEASPAN RAVEN IS ON SCENE AND ASSISTING</p>			
INTENTIONS OF MASTER:					
ON-SCENE ASSISTANCE:					
POLLUTION/NAV HAZARD:					
<b>WEATHER DETAILS</b>					
VISIBILITY:				WIND (KNOTS):	
SEA STATE:				TIDE/CURRENT:	
<b>ALERT LIST (NAME AND DATE/TIME OF VERBAL ALERT)</b>					
CCG-W ER DUTY OFFICER (IF POLLUTION PRESENT OR RISK OF DISCHARGE)		Click here to enter a date. Click here to enter text.			
TSB SAFETY OFFICER (COMMERCIAL VESSEL ONLY OR LOSS OF LIFE ON ANY VESSEL)		Click here to enter a date. Click here to enter text.			
VANCOUVER HBR MASTER (ONLY IF WITHIN OR BOUND FOR VANCOUVER HARBOUR )		Click here to enter a date. Click here to enter text.			
		Click here to enter a date. Click here to enter text.			
MCTS OFFICER:		DG			
MCTS WATCH SUPERVISOR:		SO			

**VICTORIA MARINE COMMUNICATIONS AND TRAFFIC SERVICES**

**CANADIAN COAST GUARD/GOVERNMENT OF CANADA**

**SUPERVISOR.VICTORIA@INNAV.GC.CA /TEL: 250-363-6333 | 1-800-661-9202 / FAX: 250-363-6556**



Fisheries and Oceans  
Canada

Pêches et Océans  
Canada

Canadian  
Coast Guard

Garde côtière  
canadienne



**Rear, Scott**

---

**From:** Supervisor.Victoria <Supervisor.Victoria@innav.gc.ca>  
**Sent:** 2019-March-17 4:05 AM  
**To:** CBSA Operations; NCC / CCN (DFO/MPO); CCG Western Aids to Navigation / Aides à la Navigation GCC (DFO/MPO); Payne, Stephen; Jourdenais, Marc; Carlow, Theresa; ROC1 / COR1 (DFO/MPO); ROC1 / COR1 (DFO/MPO); Evans, Clay; Clinton. Rebeiro@tsb-bst.gc.ca (Clinton.Rebeiro@tsb-bst.gc.ca); PAC Radio Room / Salle de radio PAC (DFO/MPO); Environment Canada (ec.cnue-neec.ec@canada.ca); Gascon, Julie; Glenn Budden (Glenn.Budden@tsb-bst.gc.ca); Harbour Master - Vancouver; Harbour Master- Victoria ; Harbour Master-Victoria Assistant ; Brady, Jeff; Victoria JRCC [DND]; Carrigan, Kevin; Fraser, Lee (Elizabeth); Mcculloch, Lisa; CCG MCTS RHQ Western / GCC SCTM bureau régional l'Ouest (DFO/MPO); Statham, Art; Mohan Raman (Mohan.Raman@tsb-bst.gc.ca); CCG West MSOC / COSM Ouest GCC (DFO/MPO); Pacific Pilotage Authority (info@ppa.gc.ca); Ramanbir. Mangat@tsb-bst.gc.ca (Ramanbir.Mangat@tsb-bst.gc.ca); RCMP West Coast Marine Services; Ciammaichella, Rita; SITCEN [TC]; TC Marine Safety - Vancouver; Transportation Safety Board - Pacific; Speed, Terry; Zillur. Rahman@tsb-bst.gc.ca (Zillur.Rahman@tsb-bst.gc.ca)  
**Cc:** Ahmed, Mansoor  
**Subject:** 0176-2019-MOR-VIC-CARAVOS HARMONY/V7ZH2 LOSS OF POWER UPDATE #

UPDATE #5 3/17 0400 PDT

NO CHANGE IN STATUS

UPDATE #4 3/17 0300 PDT

ER REQUESTS THE VESSELS BE QUERIED EVERY HOUR REGARDING THEIR STATUS.

VESSELS QUERIED, NO CHANGE IN STATUS

UPDATE #3 3/17 0200 PDT

WITH THE ASSISTANCE OF THE TUG SEASPAN RAVEN, CARAVOS HARMONY ANCHORS AT ANCHORAGE A.

UPDATE #2 3/17

PAN ACACIA REPORTS NO INJURIES, NO POLLUTION.

CARAVOS HARMNOY REPORTS NO INJURIES, NO POLLUTION.

UPDATE #1 3/17 0030 PDT

TUG OCEAN GORDON REPORTS THE PAN ACACIA HAS A HOLE APROXIMATELY 10 FEET X 10 FEET ABOVE THE PORT HATCH.

CARAVOS HARMONY HAS DAMAGED TO THE BOW.

<b>GENERAL DATA – MARINE OCCURRENCE REPORT</b>					
VESSEL NAME/CALL SIGN/REG :		CARAVOS HARMONY/V7ZH2			
JRCC INCIDENT # :	V19-	PRIORITY:	-	BROADCAST:	-
INCIDENT START TIME:	17/Mar/2019 0020 PDT				
INCIDENT END TIME:	Click here to enter a date. Click here to enter text.				
NATURE OF INCIDENT:	LOSS OF POWER - COLLISION				
PERSONS ON BOARD:	LOSS OF LIFE: No				
POSITION (GPS / GEOGRAPHIC):	VANCOUVER - 49.18.06.2N 123.05.45.6W				
<b>VESSEL PARTICULARS</b>					
LOA:	229.00	TYPE:	BULKER	VRN/CFV #:	
MMSI:	538004825	GRT:	44289	IMO:	9595589
DESTINATION:	VANCOUVER – ANCHORAGE D	LAST PORT:	SEATTLE, WA	CARGO:	
FLAG:	MARSHALL ISLANDS	OWNER/ AGENT CONTACT:		SHIP PHONE/SAT PHONE:	
ADDITIONAL VESSEL DETAILS:					
<b>SITUATION DETAILS</b>					
SITREP/RESOLUTION:		<p>AFTER CLEARING FIRST NARROWS VESSEL LOSES POWER.</p> <p>BEFORE ANY TUGS CAN ARRIVE TO ASSIST, THE VESSEL COLLIDES WITH THE PAN ACACIA/ 3FUG9 AT ANCHORAGE A.</p> <p>TUG SEASPAN RAVEN IS ON SCENE AND ASSISTING</p>			
INTENTIONS OF MASTER:					
ON-SCENE ASSISTANCE:					
POLLUTION/NAV HAZARD:					
<b>WEATHER DETAILS</b>					
VISIBILITY:		WIND (KNOTS):			
SEA STATE:		TIDE/CURRENT:			
<b>ALERT LIST (NAME AND DATE/TIME OF VERBAL ALERT)</b>					
CCG-W ER DUTY OFFICER (IF POLLUTION PRESENT OR RISK OF DISCHARGE)		Click here to enter a date. Click here to enter text.			
TSB SAFETY OFFICER (COMMERCIAL VESSEL ONLY OR LOSS OF LIFE ON ANY VESSEL)		Click here to enter a date. Click here to enter text.			
VANCOUVER HBR MASTER (ONLY IF WITHIN OR BOUND FOR VANCOUVER HARBOUR)		Click here to enter a date. Click here to enter text.			
		Click here to enter a date. Click here to enter text.			
MCTS OFFICER:		DG			
MCTS WATCH SUPERVISOR:		SO			

**VICTORIA MARINE COMMUNICATIONS AND TRAFFIC SERVICES**

**CANADIAN COAST GUARD/GOVERNMENT OF CANADA**

**SUPERVISOR.VICTORIA@INNAV.GC.CA /TEL: 250-363-6333 | 1-800-661-9202 / FAX: 250-363-6556**



Fisheries and Oceans  
Canada

Pêches et Océans  
Canada

Coast Guard  
Garde Côtière

Stratégie  
Canada





**Rear, Scott**

---

**From:** Supervisor.Victoria <Supervisor.Victoria@innav.gc.ca>  
**Sent:** 2019-March-17 5:01 AM  
**To:** CBSA Operations; NCC / CCN (DFO/MPO); CCG Western Aids to Navigation / Aides à la Navigation GCC (DFO/MPO); Payne, Stephen; Jourdenais, Marc; Carlow, Theresa; ROC1 / COR1 (DFO/MPO); ROC1 / COR1 (DFO/MPO); Evans, Clay; Clinton. Rebeiro@tsb-bst.gc.ca (Clinton.Rebeiro@tsb-bst.gc.ca); PAC Radio Room / Salle de radio PAC (DFO/MPO); Environment Canada (ec.cnue-neec.ec@canada.ca); Gascon, Julie; Glenn Budden (Glenn.Budden@tsb-bst.gc.ca); Harbour Master - Vancouver; Harbour Master- Victoria ; Harbour Master-Victoria Assistant ; Brady, Jeff; Victoria JRCC [DND]; Carrigan, Kevin; Fraser, Lee (Elizabeth); Mcculloch, Lisa; CCG MCTS RHQ Western / GCC SCTM bureau régional l'Ouest (DFO/MPO); Statham, Art; Mohan Raman (Mohan.Raman@tsb-bst.gc.ca); CCG West MSOC / COSM Ouest GCC (DFO/MPO); Pacific Pilotage Authority (info@ppa.gc.ca); Ramanbir. Mangat@tsb-bst.gc.ca (Ramanbir.Mangat@tsb-bst.gc.ca); RCMP West Coast Marine Services; Ciammaichella, Rita; SITCEN [TC]; TC Marine Safety - Vancouver; Transportation Safety Board - Pacific; Speed, Terry; Zillur. Rahman@tsb-bst.gc.ca (Zillur.Rahman@tsb-bst.gc.ca)  
**Subject:** 0176-2019-MOR-VIC-CARAVOS HARMONY/V7ZH2 LOSS OF POWER UPDATE #6

UPDATE #6 3/17 0500 PDT

NO CHANGE IN STATUS

UPDATE #5 3/17 0400 PDT

NO CHANGE IN STATUS

UPDATE #4 3/17 0300 PDT

ER REQUESTS THE VESSELS BE QUERIED EVERY HOUR REGARDING THEIR STATUS.

VESSELS QUERIED, NO CHANGE IN STATUS

UPDATE #3 3/17 0200 PDT

WITH THE ASSISTANCE OF THE TUG SEASPAN RAVEN, CARAVOS HARMONY ANCHORS AT ANCHORAGE A.

UPDATE #2 3/17

PAN ACACIA REPORTS NO INJURIES, NO POLLUTION.

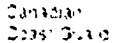
CARAVOS HARMNOY REPORTS NO INJURIES, NO POLLUTION.

UPDATE #1 3/17 0030 PDT

TUG OCEAN GORDON REPORTS THE PAN ACACIA HAS A HOLE APROXIMATELY 10 FEET X 10 FEET ABOVE THE PORT HATCH.

CARAVOS HARMONY HAS DAMAGED TO THE BOW.

<b>GENERAL DATA – MARINE OCCURRENCE REPORT</b>					
VESSEL NAME/CALL SIGN/REG :		CARAVOS HARMONY/V7ZH2			
JRCC INCIDENT # :	V19-	PRIORITY:	-	BROADCAST:	-
INCIDENT START TIME:	17/Mar/2019 0020 PDT				
INCIDENT END TIME:	Click here to enter a date. Click here to enter text.				
NATURE OF INCIDENT:	LOSS OF POWER - COLLISION				
PERSONS ON BOARD:		LOSS OF LIFE:	No		
POSITION (GPS / GEOGRAPHIC):	VANCOUVER - 49.18.06.2N 123.05.45.6W				
<b>VESSEL PARTICULARS</b>					
LOA:	229.00	TYPE:	BULKER	VRN/CFV #:	
MMSI:	538004825	GRT:	44289	IMO:	9595589
DESTINATION:	VANCOUVER – ANCHORAGE D	LAST PORT:	SEATTLE, WA	CARGO:	
FLAG:	MARSHALL ISLANDS	OWNER/ AGENT CONTACT:		SHIP PHONE/SAT PHONE:	
ADDITIONAL VESSEL DETAILS:					
<b>SITUATION DETAILS</b>					
SITREP/RESOLUTION:	<p>AFTER CLEARING FIRST NARROWS VESSEL LOSES POWER.</p> <p>BEFORE ANY TUGS CAN ARRIVE TO ASSIST, THE VESSEL COLLIDES WITH THE PAN ACACIA/ 3FUG9 AT ANCHORAGE A.</p> <p>TUG SEASPAN RAVEN IS ON SCENE AND ASSISTING</p>				
INTENTIONS OF MASTER:					
ON-SCENE ASSISTANCE:					
POLLUTION/NAV HAZARD:					
<b>WEATHER DETAILS</b>					
VISIBILITY:		WIND (KNOTS):			
SEA STATE:		TIDE/CURRENT:			
<b>ALERT LIST (NAME AND DATE/TIME OF VERBAL ALERT)</b>					
CCG-W ER DUTY OFFICER (IF POLLUTION PRESENT OR RISK OF DISCHARGE)	Click here to enter a date. Click here to enter text.				
TSB SAFETY OFFICER (COMMERCIAL VESSEL ONLY OR LOSS OF LIFE ON ANY VESSEL)	Click here to enter a date. Click here to enter text.				
VANCOUVER HBR MASTER (ONLY IF WITHIN OR BOUND FOR VANCOUVER HARBOUR )	Click here to enter a date. Click here to enter text.				
	Click here to enter a date. Click here to enter text.				

<b>MCTS OFFICER:</b>	<b>DG</b>
<b>MCTS WATCH SUPERVISOR:</b>	<b>SO</b>
<b>VICTORIA MARINE COMMUNICATIONS AND TRAFFIC SERVICES</b> <b>CANADIAN COAST GUARD/GOVERNMENT OF CANADA</b> <b><u>SUPERVISOR.VICTORIA@INNAV.GC.CA</u> /TEL: 250-363-6333   1-800-661-9202 / FAX: 250-363-6556</b>	
<div> Fisheries and Oceans Canada Pêches et Océans Canada</div> <div> Canadian Coast Guard Garde côtière canadienne</div> <div></div>	

**Rear, Scott**

---

**From:** Supervisor.Victoria <Supervisor.Victoria@innav.gc.ca>  
**Sent:** 2019-March-17 6:03 AM  
**To:** CBSA Operations; NCC / CCN (DFO/MPO); CCG Western Aids to Navigation / Aides à la Navigation GCC (DFO/MPO); Payne, Stephen; Jourdenais, Marc; Carlow, Theresa; ROC1 / COR1 (DFO/MPO); ROC1 / COR1 (DFO/MPO); Evans, Clay; Clinton. Rebeiro@tsb-bst.gc.ca (Clinton.Rebeiro@tsb-bst.gc.ca); PAC Radio Room / Salle de radio PAC (DFO/MPO); Environment Canada (ec.cnue-neec.ec@canada.ca); Gascon, Julie; Glenn Budden (Glenn.Budden@tsb-bst.gc.ca); Harbour Master - Vancouver; Harbour Master- Victoria ; Harbour Master-Victoria Assistant ; Brady, Jeff; Victoria JRCC [DND]; Carrigan, Kevin; Fraser, Lee (Elizabeth); Mcculloch, Lisa; CCG MCTS RHQ Western / GCC SCTM bureau régional l'Ouest (DFO/MPO); Statham, Art; Mohan Raman (Mohan.Raman@tsb-bst.gc.ca); CCG West MSOC / COSM Ouest GCC (DFO/MPO); Pacific Pilotage Authority (info@ppa.gc.ca); Ramanbir. Mangat@tsb-bst.gc.ca (Ramanbir.Mangat@tsb-bst.gc.ca); RCMP West Coast Marine Services; Ciammaichella, Rita; SITCEN [TC]; TC Marine Safety - Vancouver; Transportation Safety Board - Pacific; Speed, Terry; Zillur. Rahman@tsb-bst.gc.ca (Zillur.Rahman@tsb-bst.gc.ca)  
**Cc:** Ahmed, Mansoor  
**Subject:** 0176-2019-MOR-VIC-CARAVOS HARMONY/V7ZH2 LOSS OF POWER UPDATE #7

UPDATE #7 3/17 0600 PDT

NO CHANGE IN STATUS

UPDATE #6 3/17 0500 PDT

NO CHANGE IN STATUS

UPDATE #5 3/17 0400 PDT

NO CHANGE IN STATUS

UPDATE #4 3/17 0300 PDT

ER REQUESTS THE VESSELS BE QUERIED EVERY HOUR REGARDING THEIR STATUS.

VESSELS QUERIED, NO CHANGE IN STATUS

UPDATE #3 3/17 0200 PDT

WITH THE ASSISTANCE OF THE TUG SEASPAN RAVEN, CARAVOS HARMONY ANCHORS AT ANCHORAGE A.

UPDATE #2 3/17

PAN ACACIA REPORTS NO INJURIES, NO POLLUTION.

CARAVOS HARMNOY REPORTS NO INJURIES, NO POLLUTION.

UPDATE #1 3/17 0030 PDT

TUG OCEAN GORDON REPORTS THE PAN ACACIA HAS A HOLE APROXIMATELY 10 FEET X 10 FEET ABOVE THE PORT HATCH.

CARAVOS HARMONY HAS DAMAGED TO THE BOW.

<b>GENERAL DATA – MARINE OCCURRENCE REPORT</b>					
VESSEL NAME/CALL SIGN/REG :		CARAVOS HARMONY/V7ZH2			
JRCC INCIDENT # :	V19-	PRIORITY:	-	BROADCAST:	-
INCIDENT START TIME:	17/Mar/2019 0020 PDT				
INCIDENT END TIME:	Click here to enter a date. Click here to enter text.				
NATURE OF INCIDENT:	LOSS OF POWER - COLLISION				
PERSONS ON BOARD:		LOSS OF LIFE:	No		
POSITION (GPS / GEOGRAPHIC):	VANCOUVER - 49.18.06.2N 123.05.45.6W				
<b>VESSEL PARTICULARS</b>					
LOA:	229.00	TYPE:	BULKER	VRN/CFV #:	
MMSI:	538004825	GRT:	44289	IMO:	9595589
DESTINATION:	VANCOUVER – ANCHORAGE D	LAST PORT:	SEATTLE, WA	CARGO:	
FLAG:	MARSHALL ISLANDS	OWNER/ AGENT CONTACT:		SHIP PHONE/SAT PHONE:	
ADDITIONAL VESSEL DETAILS:					
<b>SITUATION DETAILS</b>					
SITREP/RESOLUTION:		<p>AFTER CLEARING FIRST NARROWS VESSEL LOSES POWER.</p> <p>BEFORE ANY TUGS CAN ARRIVE TO ASSIST, THE VESSEL COLLIDES WITH THE PAN ACACIA/ 3FUG9 AT ANCHORAGE A.</p> <p>TUG SEASPAN RAVEN IS ON SCENE AND ASSISTING</p>			
INTENTIONS OF MASTER:					
ON-SCENE ASSISTANCE:					
POLLUTION/NAV HAZARD:					
<b>WEATHER DETAILS</b>					
VISIBILITY:		WIND (KNOTS):			
SEA STATE:		TIDE/CURRENT:			
<b>ALERT LIST (NAME AND DATE/TIME OF VERBAL ALERT)</b>					



**Rear, Scott**

---

**From:** Supervisor.Victoria <Supervisor.Victoria@innav.gc.ca>  
**Sent:** 2019-March-17 5:35 PM  
**To:** CBSA Operations; NCC / CCN (DFO/MPO); CCG Western Aids to Navigation / Aides à la Navigation GCC (DFO/MPO); Payne, Stephen; Jourdenais, Marc; Carlow, Theresa; ROC1 / COR1 (DFO/MPO); ROC1 / COR1 (DFO/MPO); Evans, Clay; Clinton. Rebeiro@tsb-bst.gc.ca (Clinton.Rebeiro@tsb-bst.gc.ca); PAC Radio Room / Salle de radio PAC (DFO/MPO); Environment Canada (ec.cnue-neec.ec@canada.ca); Gascon, Julie; Glenn Budden (Glenn.Budden@tsb-bst.gc.ca); Harbour Master - Vancouver; Harbour Master- Victoria ; Harbour Master-Victoria Assistant ; Brady, Jeff; Victoria JRCC [DND]; Carrigan, Kevin; Fraser, Lee (Elizabeth); Mcculloch, Lisa; CCG MCTS RHQ Western / GCC SCTM bureau régional l'Ouest (DFO/MPO); Statham, Art; Mohan Raman (Mohan.Raman@tsb-bst.gc.ca); CCG West MSOC / COSM Ouest GCC (DFO/MPO); Pacific Pilotage Authority (info@ppa.gc.ca); Ramanbir. Mangat@tsb-bst.gc.ca (Ramanbir.Mangat@tsb-bst.gc.ca); RCMP West Coast Marine Services; Ciammaichella, Rita; SITCEN [TC]; TC Marine Safety - Vancouver; Transportation Safety Board - Pacific; Speed, Terry; Zillur. Rahman@tsb-bst.gc.ca (Zillur.Rahman@tsb-bst.gc.ca)  
**Cc:** Ahmed, Mansoor  
**Subject:** 0176-2019-MOR-VIC-CARAVOS HARMONY/PAN ACACIA - ACCIDENT - VANCOUVER - UPDATE #9  
**Attachments:** IMG\_2279.jpg; O30144-K640\_P1070147.jpg

UPDATE# 9 3/17 1700PDT

ONE PICTURE OF EACH VESSEL IS ATTACHED. HOLE IN HULL PAN ACACIA, DAMAGE TO BOW CARAVOS HARMONY.

BOTH VESSEL MASTERS PREPARING REPORTS FOR INVESTIGATORS. MASTER OF CARAVOS HARMONY INDICATED THAT THE VOYAGE DATA RECORDER (VDR) WAS TURNED ON.

VANCOUVER HARBOURMASTER VESSEL WAS ONSCENE EARLY TODAY. NO PROBLEMS REPORTED. TYMAC LAUNCH VESSELS HAVE VISITED ONE OR BOTH VESSELS WITH AUTHORITIES.

UPDATE #8 3/17 0700 PDT

NO CHANGE IN STATUS.

UPDATE #7 3/17 0600 PDT

NO CHANGE IN STATUS

UPDATE #6 3/17 0500 PDT

NO CHANGE IN STATUS

UPDATE #5 3/17 0400 PDT

NO CHANGE IN STATUS

UPDATE #4 3/17 0300 PDT

ER REQUESTS THE VESSELS BE QUERIED EVERY HOUR REGARDING THEIR STATUS.

VESSELS QUERIED, NO CHANGE IN STATUS

UPDATE #3 3/17 0200 PDT

WITH THE ASSISTANCE OF THE TUG SEASPAN RAVEN, CARAVOS HARMONY ANCHORS AT ANCHORAGE A.

UPDATE #2 3/17

PAN ACACIA REPORTS NO INJURIES, NO POLLUTION.

CARAVOS HARMNOY REPORTS NO INJURIES, NO POLLUTION.



UPDATE #1 3/17 0030 PDT

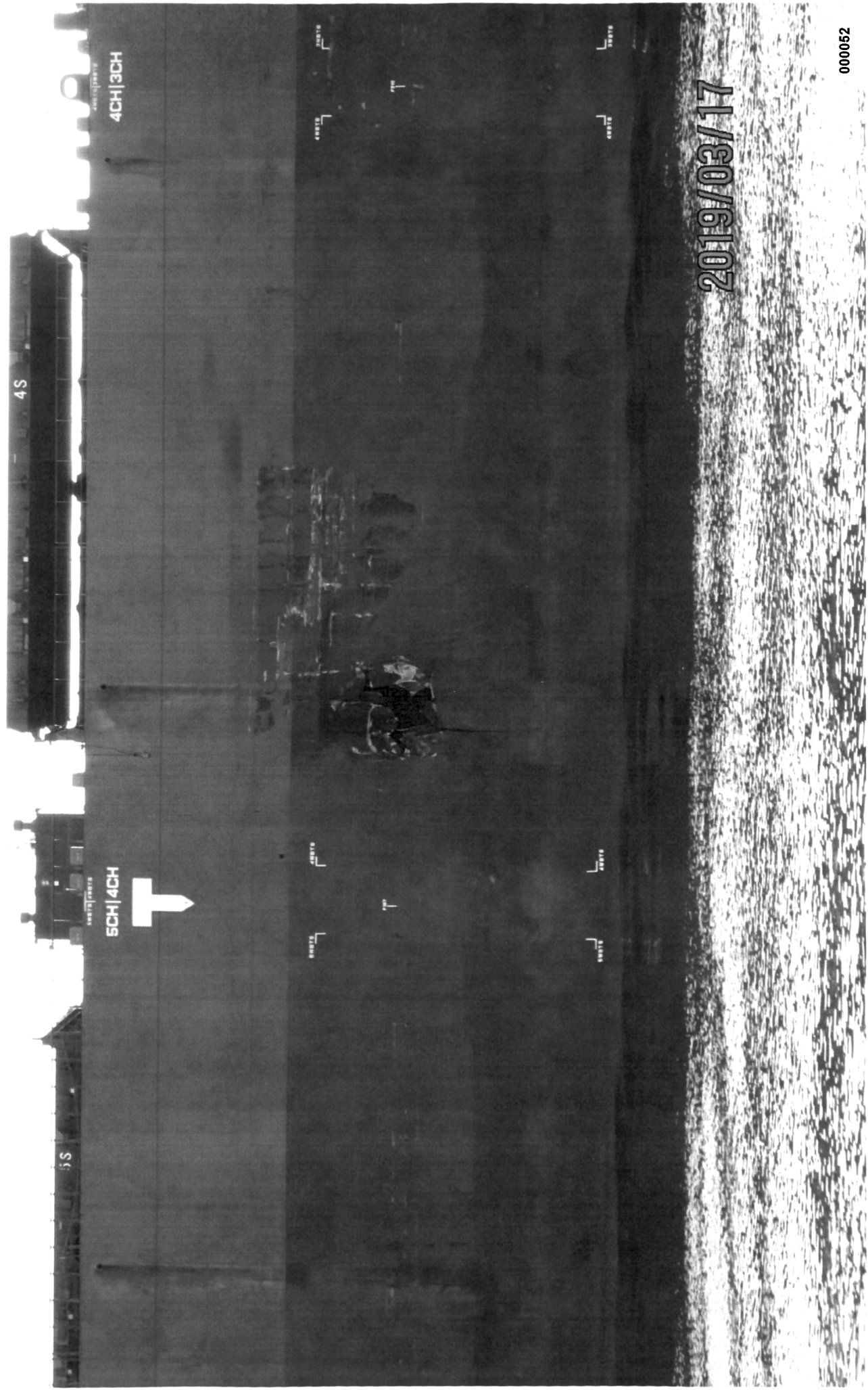
TUG OCEAN GORDON REPORTS THE PAN ACACIA HAS A HOLE APROXIMATELY 10 FEET X 10 FEET ABOVE THE PORT HATCH.

CARAVOS HARMONY HAS DAMAGED TO THE BOW.

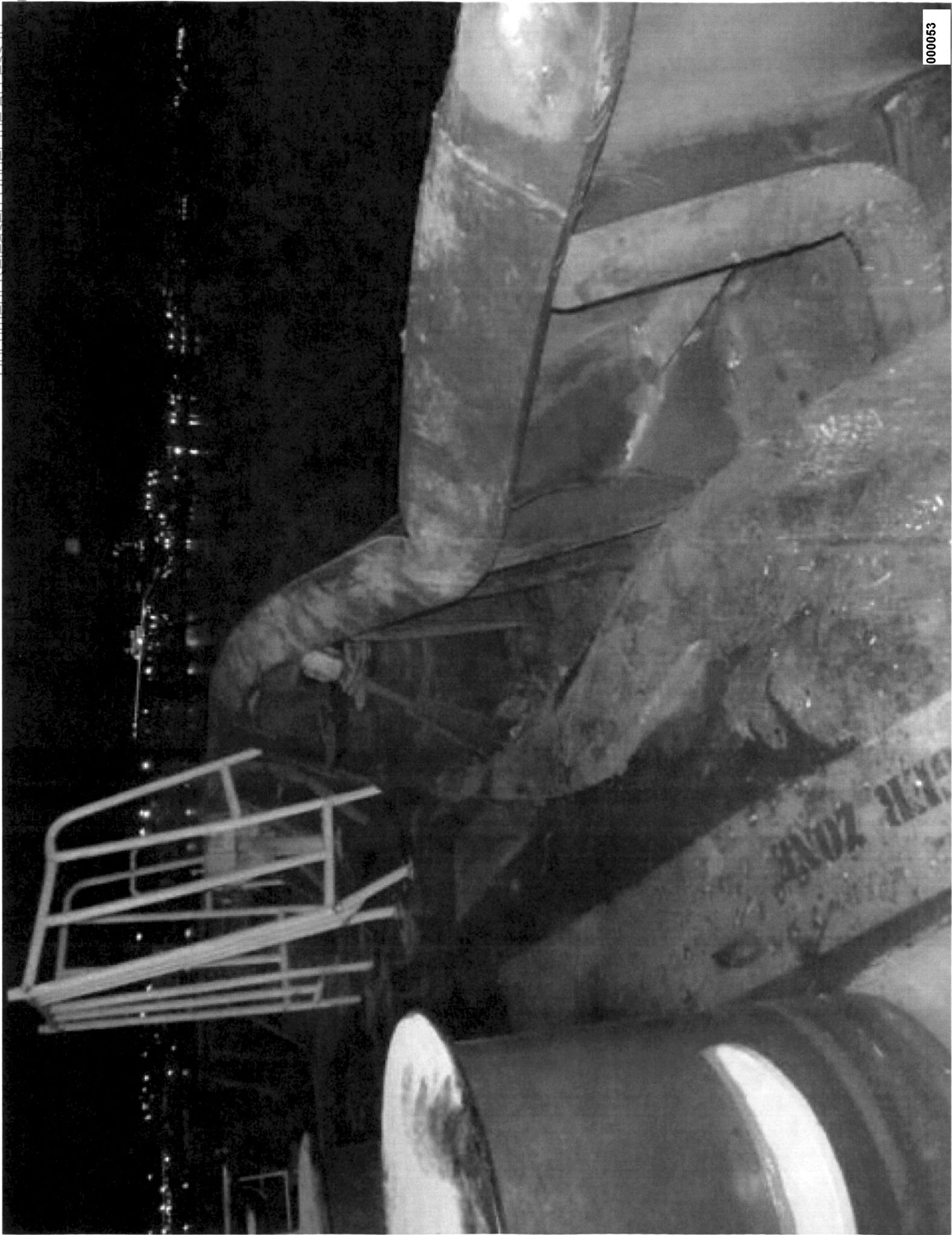
<b>GENERAL DATA – MARINE OCCURRENCE REPORT</b>					
VESSEL NAME/CALL SIGN/REG :		CARAVOS HARMONY/V7ZH2			
JRCC INCIDENT # :	V19-	PRIORITY:	-	BROADCAST:	-
INCIDENT START TIME:	17/Mar/2019 0020 PDT				
INCIDENT END TIME:	Click here to enter a date. Click here to enter text.				
NATURE OF INCIDENT:	LOSS OF POWER - COLLISION				
PERSONS ON BOARD:		LOSS OF LIFE:	No		
POSITION (GPS / GEOGRAPHIC):	VANCOUVER - 49.18.06.2N 123.05.45.6W				
<b>VESSEL PARTICULARS</b>					
LOA:	229.00	TYPE:	BULKER	VRN/CFV #:	
MMSI:	538004825	GRT:	44289	IMO:	9595589



DESTINATION:	VANCOUVER – ANCHORAGE D	LAST PORT:	SEATTLE, WA	CARGO:	
FLAG:	MARSHALL ISLANDS	OWNER/ AGENT CONTACT:		SHIP PHONE/SAT PHONE:	
ADDITIONAL VESSEL DETAILS:					
<b>SITUATION DETAILS</b>					
SITREP/RESOLUTION:		AFTER CLEARING FIRST NARROWS VESSEL LOSES POWER.  BEFORE ANY TUGS CAN ARRIVE TO ASSIST, THE VESSEL COLLIDES WITH THE PAN ACACIA/ 3FUG9 AT ANCHORAGE A.  TUG SEASpan RAVEN IS ON SCENE AND ASSISTING			
INTENTIONS OF MASTER:					
ON-SCENE ASSISTANCE:					
POLLUTION/NAV HAZARD:					
<b>WEATHER DETAILS</b>					
VISIBILITY:		WIND (KNOTS):			
SEA STATE:		TIDE/CURRENT:			
<b>ALERT LIST (NAME AND DATE/TIME OF VERBAL ALERT)</b>					
CCG-W ER DUTY OFFICER (IF POLLUTION PRESENT OR RISK OF DISCHARGE)		Click here to enter a date. Click here to enter text.			
TSB SAFETY OFFICER (COMMERCIAL VESSEL ONLY OR LOSS OF LIFE ON ANY VESSEL)		Click here to enter a date. Click here to enter text.			
VANCOUVER HBR MASTER (ONLY IF WITHIN OR BOUND FOR VANCOUVER HARBOUR)		Click here to enter a date. Click here to enter text.			
		Click here to enter a date. Click here to enter text.			
MCTS OFFICER:		DG			
MCTS WATCH SUPERVISOR:		SO			
<b>VICTORIA MARINE COMMUNICATIONS AND TRAFFIC SERVICES</b> <b>CANADIAN COAST GUARD/GOVERNMENT OF CANADA</b> <b>SUPERVISOR.VICTORIA@INNAV.GC.CA /TEL: 250-363-6333   1-800-661-9202 / FAX: 250-363-6556</b>					
<div>  <div> <div> Fisheries and Oceans Canada </div> <div> Pêches et Océans Canada </div> </div> <div> <div> Contact Contact </div> <div> 250-363-6333 1-800-661-9202 </div> </div> </div> <div>  </div>					



2019/03/17



**Rear, Scott**

---

**From:** Supervisor.Victoria <Supervisor.Victoria@innav.gc.ca>  
**Sent:** 2019-March-17 8:07 PM  
**To:** CBSA Operations; NCC / CCN (DFO/MPO); CCG Western Aids to Navigation / Aides à la Navigation GCC (DFO/MPO); Payne, Stephen; Jourdenais, Marc; Carlow, Theresa; ROC1 / COR1 (DFO/MPO); ROC1 / COR1 (DFO/MPO); Evans, Clay; Clinton. Rebeiro@tsb-bst.gc.ca (Clinton.Rebeiro@tsb-bst.gc.ca); PAC Radio Room / Salle de radio PAC (DFO/MPO); Environment Canada (ec.cnue-neec.ec@canada.ca); Gascon, Julie; Glenn Budden (Glenn.Budden@tsb-bst.gc.ca); Harbour Master - Vancouver; Harbour Master- Victoria ; Harbour Master-Victoria Assistant ; Brady, Jeff; Victoria JRCC [DND]; Carrigan, Kevin; Fraser, Lee (Elizabeth); Mcculloch, Lisa; CCG MCTS RHQ Western / GCC SCTM bureau régional lOuest (DFO/MPO); Statham, Art; Mohan Raman (Mohan.Raman@tsb-bst.gc.ca); CCG West MSOC / COSM Ouest GCC (DFO/MPO); Pacific Pilotage Authority (info@ppa.gc.ca); Ramanbir. Mangat@tsb-bst.gc.ca> (Ramanbir.Mangat@tsb-bst.gc.ca); RCMP West Coast Marine Services; Ciammaichella, Rita; SITCEN [TC]; TC Marine Safety - Vancouver; Transportation Safety Board - Pacific; Speed, Terry; Zillur. Rahman@tsb-bst.gc.ca (Zillur.Rahman@tsb-bst.gc.ca)  
**Cc:** Ahmed, Mansoor  
**Subject:** 0176-2019-MOR-VIC-CARAVOS HARMONY/PAN ACACIA - ACCIDENT - VANCOUVER - UPDATE #10

UPDATE #10 2019-03-17 2006 PDT

Transport Canada. Marine Safety, Port State Control inspectors conducted PSC inspection of MV CAVAROS HARMONY and as a result the vessel is detained.

Best Regards,

Mansoor Ahmed  
604-908-2026

UPDATE# 9 3/17 1700PDT

ONE PICTURE OF EACH VESSEL IS ATTACHED. HOLE IN HULL PAN ACACIA, DAMAGE TO BOW CARAVOS HARMONY.

BOTH VESSEL MASTERS PREPARING REPORTS FOR INVESTIGATORS. MASTER OF CARAVOS HARMONY INDICATED THAT THE VOYAGE DATA RECORDER (VDR) WAS TURNED ON.

VANCOUVER HARBOURMASTER VESSEL WAS ONSCENE EARLY TODAY. NO PROBLEMS REPORTED. TYMAC LAUNCH VESSELS HAVE VISITED ONE OR BOTH VESSELS WITH AUTHORITIES.

UPDATE #8 3/17 0700 PDT

NO CHANGE IN STATUS.

UPDATE #7 3/17 0600 PDT

NO CHANGE IN STATUS

UPDATE #6 3/17 0500 PDT

NO CHANGE IN STATUS

UPDATE #5 3/17 0400 PDT

NO CHANGE IN STATUS

UPDATE #4 3/17 0300 PDT

ER REQUESTS THE VESSELS BE QUERIED EVERY HOUR REGARDING THEIR STATUS.

VESSELS QUERIED, NO CHANGE IN STATUS

UPDATE #3 3/17 0200 PDT

WITH THE ASSISTANCE OF THE TUG SEASPAN RAVEN, CARAVOS HARMONY ANCHORS AT ANCHORAGE A.

UPDATE #2 3/17

PAN ACACIA REPORTS NO INJURIES, NO POLLUTION.



CARAVOS HARMNOY REPORTS NO INJURIES, NO POLLUTION.

UPDATE #1 3/17 0030 PDT

TUG OCEAN GORDON REPORTS THE PAN ACACIA HAS A HOLE APROXIMATELY 10 FEET X 10 FEET ABOVE THE PORT HATCH.

CARAVOS HARMONY HAS DAMAGED TO THE BOW.

GENERAL DATA – MARINE OCCURRENCE REPORT					
VESSEL NAME/CALL SIGN/REG :		CARAVOS HARMONY/V7ZH2			
JRCC INCIDENT # :	V19-	PRIORITY:	-	BROADCAST:	-
INCIDENT START TIME:	17/Mar/2019 0020 PDT				

INCIDENT END TIME:		Click here to enter a date. Click here to enter text.			
NATURE OF INCIDENT:		LOSS OF POWER - COLLISION			
PERSONS ON BOARD:		LOSS OF LIFE: No			
POSITION (GPS / GEOGRAPHIC):		VANCOUVER - 49.18.06.2N 123.05.45.6W			
<b>VESSEL PARTICULARS</b>					
LOA:	229.00	TYPE:	BULKER	VRN/CFV #:	
MMSI:	538004825	GRT:	44289	IMO:	9595589
DESTINATION:	VANCOUVER – ANCHORAGE D	LAST PORT:	SEATTLE, WA	CARGO:	
FLAG:	MARSHALL ISLANDS	OWNER/ AGENT CONTACT:		SHIP PHONE/SAT PHONE:	
ADDITIONAL VESSEL DETAILS:					
<b>SITUATION DETAILS</b>					
SITREP/RESOLUTION:		<p>AFTER CLEARING FIRST NARROWS VESSEL LOSES POWER.</p> <p>BEFORE ANY TUGS CAN ARRIVE TO ASSIST, THE VESSEL COLLIDES WITH THE PAN ACACIA/ 3FUG9 AT ANCHORAGE A.</p> <p>TUG SEASpan RAVEN IS ON SCENE AND ASSISTING</p>			
INTENTIONS OF MASTER:					
ON-SCENE ASSISTANCE:					
POLLUTION/NAV HAZARD:					
<b>WEATHER DETAILS</b>					
VISIBILITY:		WIND (KNOTS):			
SEA STATE:		TIDE/CURRENT:			
<b>ALERT LIST (NAME AND DATE/TIME OF VERBAL ALERT)</b>					
CCG-W ER DUTY OFFICER (IF POLLUTION PRESENT OR RISK OF DISCHARGE)		Click here to enter a date. Click here to enter text.			
TSB SAFETY OFFICER (COMMERCIAL VESSEL ONLY OR LOSS OF LIFE ON ANY VESSEL)		Click here to enter a date. Click here to enter text.			
VANCOUVER HBR MASTER (ONLY IF WITHIN OR BOUND FOR VANCOUVER HARBOUR )		Click here to enter a date. Click here to enter text.			
		Click here to enter a date. Click here to enter text.			
MCTS OFFICER:		DG			
MCTS WATCH SUPERVISOR:		SO			
<b>VICTORIA MARINE COMMUNICATIONS AND TRAFFIC SERVICES</b> <b>CANADIAN COAST GUARD/GOVERNMENT OF CANADA</b> <b>SUPERVISOR.VICTORIA@INNAV.GC.CA /TEL: 250-363-6333   1-800-661-9202 / FAX: 250-363-6556</b>					
 <div> <div> Fisheries and Oceans Canada Pêches et Océans Canada </div> <div> Canadian Coast Guard Garde côtière canadienne </div> </div> 					

Shift Supervisor - Victoria MCTS Centre  
Telephone: 250-363-6333  
Facsimile: 250-363-6556  
[Supervisor.Victoria@innav.gc.ca](mailto:Supervisor.Victoria@innav.gc.ca)

Victoria Marine Communications & Traffic Services  
P.O. Box 6000  
9860 West Saanich Road  
Sidney, BC, Canada, V8L 4B2

**Rear, Scott**

---

**From:** Raman, Mohan <Mohan.Raman@tsb-bst.gc.ca>  
**Sent:** 2019-March-18 8:58 AM  
**To:** Supervisor.Victoria  
**Cc:** Ahmed, Mansoor: TC.TC; CBSA Operations; NCC / CCN (DFO/MPO); CCG Western Aids to Navigation / Aides à la Navigation GCC (DFO/MPO); Payne, Stephen; Jourdenais, Marc; Carlow, Theresa; ROC1 / COR1 (DFO/MPO); ROC1 / COR1 (DFO/MPO); Evans, Clay; PAC Radio Room / Salle de radio PAC (DFO/MPO); Environment Canada (ec.cnue-neec.ec@canada.ca); Gascon, Julie; Harbour Master - Vancouver; Harbour Master-Victoria ; Polden, Zoe: TC.TC; Brady, Jeff; Victoria JRCC [DND]; Carrigan, Kevin; Fraser, Lee (Elizabeth); Mcculloch, Lisa; CCG MCTS RHQ Western / GCC SCTM bureau régional IOuest (DFO/MPO); Statham, Art; CCG West MSOC / COSM Ouest GCC (DFO/MPO); Pacific Pilotage Authority (info@ppa.gc.ca); RCMP West Coast Marine Services; Ciammaichella, Rita; SITCEN [TC]; TC Marine Safety - Vancouver; MarineNotifications.Pacific; Speed, Terry  
**Subject:** 0176-2019-MOR-VIC-CARAVOS HARMONY/V7ZH2 LOSS OF POWER UPDATE #8

Hello Supervisor,

A friendly reminder to advise the TSB as soon as possible when any of the following occurs:

1. Collision
2. Fire
3. Explosion
4. Grounding
5. Sinking
6. Major environmental disaster
7. Serious injury or fatality.

The best number to call the standby investigator is 604 219 2414 (manned 24/7).

Thank you.

Mohan Raman

Manager Regional Operations / Marine- Pacific  
Transportation Safety Board of Canada / Government of Canada  
[Mohan.Raman@tsb-bst.gc.ca](mailto:Mohan.Raman@tsb-bst.gc.ca) / Tel: (604) 666-4957 / TTY: 819-953-7287

Gestionnaire opérations régionale / Marine- Pacifique  
Bureau de la sécurité des transports du Canada / Gouvernement du Canada  
[Mohan.Raman@bst-tsb.gc.ca](mailto:Mohan.Raman@bst-tsb.gc.ca) / Tél.: (604) 666-4957 / ATS: 819-953-7287



**From:** Supervisor.Victoria <Supervisor.Victoria@innav.gc.ca>

**Sent:** Sunday, March 17, 2019 7:27 AM

**To:** CBSA Operations <953NPCU05G@cbsa-asfc.gc.ca>; Ottawa NCC-CCN [DFO] <ncc-ccn.xncr@dfo-mpo.gc.ca>; CCG-W Aids to Navigation (DFO.CCG-Western-AidstoNavigation-AidesalaNavigation-lOuest-GCC.MPO@dfo-mpo.gc.ca) <DFO.CCG-Western-AidstoNavigation-AidesalaNavigation-lOuest-GCC.MPO@dfo-mpo.gc.ca>; CCG-W JRCC A/Supervisor <Stephen.payne@dfo-mpo.gc.ca>; Jourdenais, Marc: DFO.MPO <Marc.Jourdenais@dfo-mpo.gc.ca>; CCG-W Marine Aids Coastal Officer <theresa.carlow@dfo-mpo.gc.ca>; CCG-W ROC - Alerting <dfo.roc1-cor1.mpo@dfo-mpo.gc.ca>; CCG-W ROC - OPERATIONS (roc1cor1@dfo-mpo.gc.ca) <roc1cor1@dfo-mpo.gc.ca>; Evans, Clay: DFO.MPO <Clay.Evans@dfo-mpo.gc.ca>; Rebeiro, Clinton <Clinton.Rebeiro@tsb-bst.gc.ca>; DFO Radio Room - Aldergrove <pacradioroomrhq@pac.dfo-mpo.gc.ca>; Environment Canada (ec.cnue-neec.ec@canada.ca) <ec.cnue-neec.ec@canada.ca>; GENERAL OPERATIONS (julie.gascon@dfo-mpo.gc.ca) <julie.gascon@dfo-mpo.gc.ca>; Budden, Glenn <Glenn.Budden@tsb-bst.gc.ca>; Harbour Master - Vancouver <harbour\_master@portmetrovanancouver.com>; Harbour Master- Victoria <mariah.mccooey@tc.gc.ca>; Polden, Zoe: TC.TC <zoe.polden@tc.gc.ca>; Brady, Jeff: DFO.MPO <Jeff.Brady@dfo-mpo.gc.ca>; Victoria JRCC [DND] <jrccvictoria@sarnet.dnd.ca>; Carrigan, Kevin: DFO.MPO <Kevin.Carrigan@dfo-mpo.gc.ca>; Fraser, Lee: DFO.MPO <Lee.Fraser@dfo-mpo.gc.ca>; Lisa McCulloch <lisa.mcculloch@dfo-mpo.gc.ca>; MCTS Regional Office <mcts@dfo-mpo.gc.ca>; Statham, Art: DFO.MPO <Art.Statham@dfo-mpo.gc.ca>; Raman, Mohan <Mohan.Raman@tsb-bst.gc.ca>; Victoria MSOC West [DFO] <msoc-west.xnat@dfo-mpo.gc.ca>; Pacific Pilotage Authority (info@ppa.gc.ca) <info@ppa.gc.ca>; Mangat, Ramanbir <Ramanbir.Mangat@tsb-bst.gc.ca>; RCMP West Coast Marine Services <E\_WCMS\_RCC.PO5.EDIV1@rcmp-grc.gc.ca>; RITA CIAMMAICHELLA <Rita.Ciammaichella@dfo-mpo.gc.ca>; SITCEN [TC] <SITCEN@TC.GC.CA>; TC Marine Safety - Vancouver <tcmarpac@tc.gc.ca>; MarineNotifications.Pacific <MarineNotifications.Pacific@bst-tsb.gc.ca>; Speed, Terry: DFO.MPO <Terry.Speed@dfo-mpo.gc.ca>; Rahman, Zillur <Zillur.Rahman@tsb-bst.gc.ca>

**Cc:** Ahmed, Mansoor: TC.TC <mansoor.ahmed@tc.gc.ca>

**Subject:** M19P0057 - 0176-2019-MOR-VIC-CARAVOS HARMONY/V7ZH2 LOSS OF POWER UPDATE #8

UPDATE #8 3/17 0700 PDT

NO CHANGE IN STATUS.

UPDATE #7 3/17 0600 PDT

NO CHANGE IN STATUS

UPDATE #6 3/17 0500 PDT

NO CHANGE IN STATUS

UPDATE #5 3/17 0400 PDT

NO CHANGE IN STATUS

UPDATE #4 3/17 0300 PDT

ER REQUESTS THE VESSELS BE QUERIED EVERY HOUR REGARDING THEIR STATUS.

VESSELS QUERIED, NO CHANGE IN STATUS

UPDATE #3 3/17 0200 PDT

WITH THE ASSISTANCE OF THE TUG SEASPAN RAVEN, CARAVOS HARMONY ANCHORS AT ANCHORAGE A.

UPDATE #2 3/17

PAN ACACIA REPORTS NO INJURIES, NO POLLUTION.



CARAVOS HARMNOY REPORTS NO INJURIES, NO POLLUTION.

UPDATE #1 3/17 0030 PDT

TUG OCEAN GORDON REPORTS THE PAN ACACIA HAS A HOLE APROXIMATELY 10 FEET X 10 FEET ABOVE THE PORT HATCH.

CARAVOS HARMONY HAS DAMAGED TO THE BOW.

<b>GENERAL DATA – MARINE OCCURRENCE REPORT</b>					
VESSEL NAME/CALL SIGN/REG :		<u>CARAVOS HARMONY/V7ZH2</u>			
JRCC INCIDENT # :	V19-	PRIORITY:	-	BROADCAST:	-
INCIDENT START TIME:	17/Mar/2019 0020 PDT				
INCIDENT END TIME:	Click here to enter a date. Click here to enter text.				
NATURE OF INCIDENT:	LOSS OF POWER - COLLISION				
PERSONS ON BOARD:		LOSS OF LIFE:	No		
POSITION (GPS / GEOGRAPHIC):	VANCOUVER - 49.18.06.2N 123.05.45.6W				
<b>VESSEL PARTICULARS</b>					
LOA:	229.00	TYPE:	BULKER	VRN/CFV #:	
MMSI:	538004825	GRT:	44289	IMO:	9595589
DESTINATION:	VANCOUVER – ANCHORAGE D	LAST PORT:	SEATTLE, WA	CARGO:	
FLAG:	MARSHALL ISLANDS	OWNER/ AGENT CONTACT:		SHIP PHONE/SAT PHONE:	
ADDITIONAL VESSEL DETAILS:					
<b>SITUATION DETAILS</b>					
SITREP/RESOLUTION:		<p>AFTER CLEARING FIRST NARROWS VESSEL LOSES POWER.</p> <p>BEFORE ANY TUGS CAN ARRIVE TO ASSIST, THE VESSEL COLLIDES WITH THE PAN ACACIA/ 3FUG9 AT ANCHORAGE A.</p>			

TUG SEASPAN RAVEN IS ON SCENE AND ASSISTING	
INTENTIONS OF MASTER:	
ON-SCENE ASSISTANCE:	
POLLUTION/NAV HAZARD:	
<b>WEATHER DETAILS</b>	
VISIBILITY:	WIND (KNOTS):
SEA STATE:	TIDE/CURRENT:
<b><u>ALERT LIST (NAME AND DATE/TIME OF VERBAL ALERT)</u></b>	
CCG-W ER DUTY OFFICER (IF POLLUTION PRESENT OR RISK OF DISCHARGE)	Click here to enter a date. Click here to enter text.
TSB SAFETY OFFICER (COMMERCIAL VESSEL ONLY OR LOSS OF LIFE ON ANY VESSEL)	Click here to enter a date. Click here to enter text.
VANCOUVER HBR MASTER (ONLY IF WITHIN OR BOUND FOR VANCOUVER HARBOUR)	Click here to enter a date. Click here to enter text.
	Click here to enter a date. Click here to enter text.
MCTS OFFICER:	DG
MCTS WATCH SUPERVISOR:	SO
<b>VICTORIA MARINE COMMUNICATIONS AND TRAFFIC SERVICES</b> <b>CANADIAN COAST GUARD/GOVERNMENT OF CANADA</b> <b><u>SUPERVISOR.VICTORIA@INNAV.GC.CA /TEL: 250-363-6333   1-800-661-9202 / FAX: 250-363-6556</u></b>	
 <div> <div> Fisheries and Oceans Canada </div> <div> Pêches et Océans Canada </div> <div> <div> Canada 2024-2025 </div> <div> Canada 2024-2025 </div> </div> </div> 	

**Rear, Scott**

**From:** Supervisor.Victoria <Supervisor.Victoria@innav.gc.ca>  
**Sent:** 2019-March-18 8:40 AM  
**To:** CBSA Operations; NCC / CCN (DFO/MPO); CCG Western Aids to Navigation / Aides à la Navigation GCC (DFO/MPO); Payne, Stephen; Jourdenais, Marc; Carlow, Theresa; ROC1 / COR1 (DFO/MPO); ROC1 / COR1 (DFO/MPO); Evans, Clay; Clinton. Rebeiro@tsb-bst.gc.ca (Clinton.Rebeiro@tsb-bst.gc.ca); PAC Radio Room / Salle de radio PAC (DFO/MPO); Environment Canada (ec.cnue-neec.ec@canada.ca); Gascon, Julie; Glenn Budden (Glenn.Budden@tsb-bst.gc.ca); Harbour Master - Vancouver; Harbour Master- Victoria ; Harbour Master-Victoria Assistant ; Brady, Jeff; Victoria JRCC [DND]; Carrigan, Kevin; Fraser, Lee (Elizabeth); Mcculloch, Lisa; CCG MCTS RHQ Western / GCC SCTM bureau régional l'Ouest (DFO/MPO); Statham, Art; Mohan Raman (Mohan.Raman@tsb-bst.gc.ca); CCG West MSOC / COSM Ouest GCC (DFO/MPO); Pacific Pilotage Authority (info@ppa.gc.ca); Ramanbir. Mangat@tsb-bst.gc.ca (Ramanbir.Mangat@tsb-bst.gc.ca); RCMP West Coast Marine Services; Ciammaichella, Rita; SITCEN [TC]; TC Marine Safety - Vancouver; Transportation Safety Board - Pacific; Speed, Terry; Zillur. Rahman@tsb-bst.gc.ca (Zillur.Rahman@tsb-bst.gc.ca)  
**Cc:** Rawat, Shishir; Ahmed, Mansoor; 'colley@colleywest.bc.ca'  
**Subject:** 0176-2019-MOR-VIC-CARAVOS HARMONY/V7ZH2 LOSS OF POWER UPDATE #9  
**Attachments:** 030151-STATEMENT PSC defecienies.pdf

UPDATE #9 2019-18-0840 PDT

Please see the following message below and the attached PSC deficiencies report from the Master of the Caravos Harmony in regard to the vessel's defects.

Shift Supervisor - Victoria MCTS Centre

Telephone: 250-363-6333

Facsimile: 250-363-6556

Supervisor.Victoria@innav.gc.ca

Victoria Marine Communications & Traffic Services P.O. Box 6000

9860 West Saanich Road

Sidney, BC, Canada, V8L 4B2

-----Original Message-----

**From:** [REDACTED]  
**Sent:** Sunday, March 17, 2019 4:09 PM  
**To:** Supervisor.Victoria; paramjeet.mangat@tc.gc.ca; khushru.irani@tc.gc.ca; [REDACTED]

**Cc:** [REDACTED]; colley@colleywest.bc.ca; [REDACTED] ops@navwest.com;

**Subject:** REPLY:Caravos Harmony - Instructions from Transport Canada

\*\*\*\*\*

DATE TIME: 18/03/2019 15:10:11

MSG No : 30151

ATT. (01): STATEMENT PSC defecienies.pdf (426,307)

-- Total Attachment(s) Size : 426,307 bytes --

\*\*\*\*\*

To: Transport Canada Maritime

Cc: As addressed

Fm: Master Caravos Harmony

Dd: 18th March 2019

Dear Sir,

Good day!

many thanks.

B/Rgds,

Master Caravos Harmony

(Actual bytes transferred: 400868 - 6.21% Compression) \*\*\*< END OF MESSAGE > v4.08.1202

\*\*\*\*\*

**Pages 64 to / à 67  
are withheld pursuant to section  
sont retenues en vertu de l'article**

**20(1)(c)**

**of the Access to Information Act  
de la Loi sur l'accès à l'information**

**Rear, Scott**

---

**From:** Supervisor.Victoria <Supervisor.Victoria@innav.gc.ca>  
**Sent:** 2019-March-18 9:28 AM  
**To:** CBSA Operations; NCC / CCN (DFO/MPO); CCG Western Aids to Navigation / Aides à la Navigation GCC (DFO/MPO); Payne, Stephen; Jourdenais, Marc; Carlow, Theresa; ROC1 / COR1 (DFO/MPO); ROC1 / COR1 (DFO/MPO); Evans, Clay; Clinton. Rebeiro@tsb-bst.gc.ca (Clinton.Rebeiro@tsb-bst.gc.ca); PAC Radio Room / Salle de radio PAC (DFO/MPO); Environment Canada (ec.cnue-neec.ec@canada.ca); Gascon, Julie; Glenn Budden (Glenn.Budden@tsb-bst.gc.ca); Harbour Master - Vancouver; Harbour Master- Victoria ; Harbour Master-Victoria Assistant ; Brady, Jeff; Victoria JRCC [DND]; Carrigan, Kevin; Fraser, Lee (Elizabeth); Mcculloch, Lisa; CCG MCTS RHQ Western / GCC SCTM bureau régional l'Ouest (DFO/MPO); Statham, Art; Mohan Raman (Mohan.Raman@tsb-bst.gc.ca); CCG West MSOC / COSM Ouest GCC (DFO/MPO); Pacific Pilotage Authority (info@ppa.gc.ca); Ramanbir. Mangat@tsb-bst.gc.ca (Ramanbir.Mangat@tsb-bst.gc.ca); RCMP West Coast Marine Services; Ciammaichella, Rita; SITCEN [TC]; TC Marine Safety - Vancouver; Transportation Safety Board - Pacific; Speed, Terry; Zillur. Rahman@tsb-bst.gc.ca (Zillur.Rahman@tsb-bst.gc.ca)  
**Cc:** Irani, Khushru; Ahmed, Mansoor; 'Siddique, Abdulla Omar'; Harbour Master - Vancouver; [REDACTED]; 'colley@colleywest.bc.ca'  
**Subject:** 0176-2019-MOR-VIC-CARAVOS HARMONY/V7ZH2 LOSS OF POWER UPDATE #10  
**Attachments:** 20190318083452082.pdf

UPDATE #10 2019-18-0925 PDT

Good day,

Please see the attached detention notice and message below from Transport Canada regarding the MV Caravos Harmony.

Shift Supervisor - Victoria MCTS Centre  
 Telephone: 250-363-6333  
 Facsimile: 250-363-6556  
 Supervisor.Victoria@innav.gc.ca

Victoria Marine Communications & Traffic Services P.O. Box 6000  
 9860 West Saanich Road  
 Sidney, BC, Canada, V8L 4B2

-----Original Message-----

**From:** Irani, Khushru [mailto:khushru.irani@tc.gc.ca]  
**Sent:** Monday, March 18, 2019 9:00 AM  
**To:** Inspections@register-iri.com; Fleetops@register-iri.com; [REDACTED]  
 Supervisor.Victoria; 953NPCU69G@cbsa-asfc.gc.ca; habour\_master@portvancouver.com; IDR@international.gc.ca  
**Cc:** Siddique, Abdulla Omar  
**Subject:** Re: Detention of MV CARAVOS HARMONY, IMO # 9595589 in Vancouver, BC.

Good morning all,

Attached is the Detention Notice of the captioned vessel.

Best regards,  
Capt. Khushru Irani  
Senior Marine Inspector  
Transport Canada Marine Safety,  
Vancouver, BC.  
Tel: 604-323 6409.



**Pages 70 to / à 71  
are withheld pursuant to section  
sont retenues en vertu de l'article**

**20(1)(c)**

**of the Access to Information Act  
de la Loi sur l'accès à l'information**

**Rear, Scott**

---

**From:** Supervisor.Victoria <Supervisor.Victoria@innav.gc.ca>  
**Sent:** 2019-March-18 12:06 AM  
**To:** CBSA Operations; NCC / CCN (DFO/MPO); CCG Western Aids to Navigation / Aides à la Navigation GCC (DFO/MPO); Payne, Stephen; Jourdenais, Marc; Carlow, Theresa; ROC1 / COR1 (DFO/MPO); ROC1 / COR1 (DFO/MPO); Evans, Clay; Clinton. Rebeiro@tsb-bst.gc.ca (Clinton.Rebeiro@tsb-bst.gc.ca); PAC Radio Room / Salle de radio PAC (DFO/MPO); Environment Canada (ec.cnue-neec.ec@canada.ca); Gascon, Julie; Glenn Budden (Glenn.Budden@tsb-bst.gc.ca); Harbour Master - Vancouver; Harbour Master- Victoria ; Harbour Master-Victoria Assistant ; Brady, Jeff; Victoria JRCC [DND]; Carrigan, Kevin; Fraser, Lee (Elizabeth); Mcculloch, Lisa; CCG MCTS RHQ Western / GCC SCTM bureau régional l'Ouest (DFO/MPO); Statham, Art; Mohan Raman (Mohan.Raman@tsb-bst.gc.ca); CCG West MSOC / COSM Ouest GCC (DFO/MPO); Pacific Pilotage Authority (info@ppa.gc.ca); Ramanbir. Mangat@tsb-bst.gc.ca (Ramanbir.Mangat@tsb-bst.gc.ca); RCMP West Coast Marine Services; Ciammaichella, Rita; SITCEN [TC]; TC Marine Safety - Vancouver; Transportation Safety Board - Pacific; Speed, Terry; Zillur. Rahman@tsb-bst.gc.ca (Zillur.Rahman@tsb-bst.gc.ca)  
**Cc:** Ahmed, Mansoor  
**Subject:** 0176-2019-MOR-VIC-CARAVOS HARMONY/PAN ACACIA - ACCIDENT - VANCOUVER - UPDATE #11

**Follow Up Flag:** Follow up  
**Flag Status:** Completed

UPDATE #11 2019-03-17 0005 PDT

Port State Control inspection of MV PAN ACACIA is complete now and the vessel is detained.

Best Regards,

Mansoor Ahmed  
604-908-2026

UPDATE #10 2019-03-17 2006 PDT

Transport Canada. Marine Safety, Port State Control inspectors conducted PSC inspection of MV CAVAROS HARMONY and as a result the vessel is detained.

Best Regards,

Mansoor Ahmed  
604-908-2026

UPDATE# 9 3/17 1700PDT

ONE PICTURE OF EACH VESSEL IS ATTACHED. HOLE IN HULL PAN ACACIA, DAMAGE TO BOW CARAVOS HARMONY.

BOTH VESSEL MASTERS PREPARING REPORTS FOR INVESTIGATORS. MASTER OF CARAVOS HARMONY INDICATED THAT THE VOYAGE DATA RECORDER (VDR) WAS TURNED ON.

VANCOUVER HARBOURMASTER VESSEL WAS ONSCENE EARLY TODAY. NO PROBLEMS REPORTED. TYMAC LAUNCH  
VESSELS HAVE VISITED ONE OR BOTH VESSELS WITH AUTHORITIES.

UPDATE #8 3/17 0700 PDT

NO CHANGE IN STATUS.

UPDATE #7 3/17 0600 PDT

NO CHANGE IN STATUS

UPDATE #6 3/17 0500 PDT

NO CHANGE IN STATUS

UPDATE #5 3/17 0400 PDT

NO CHANGE IN STATUS

UPDATE #4 3/17 0300 PDT

ER REQUESTS THE VESSELS BE QUERIED EVERY HOUR REGARDING THEIR STATUS.

VESSELS QUERIED, NO CHANGE IN STATUS

UPDATE #3 3/17 0200 PDT

WITH THE ASSISTANCE OF THE TUG SEASPAN RAVEN, CARAVOS HARMONY ANCHORS AT ANCHORAGE A.

UPDATE #2 3/17

PAN ACACIA REPORTS NO INJURIES, NO POLLUTION.

CARAVOS HARMNOY REPORTS NO INJURIES, NO POLLUTION.

UPDATE #1 3/17 0030 PDT

TUG OCEAN GORDON REPORTS THE PAN ACACIA HAS A HOLE APROXIMATELY 10 FEET X 10 FEET ABOVE THE PORT  
HATCH.

CARAVOS HARMONY HAS DAMAGED TO THE BOW.

<b>GENERAL DATA – MARINE OCCURRENCE REPORT</b>					
VESSEL NAME/CALL SIGN/REG :		CARAVOS HARMONY/V7ZH2			
JRCC INCIDENT # :	V19-	PRIORITY:	-	BROADCAST:	-
INCIDENT START TIME:	17/Mar/2019 0020 PDT				
INCIDENT END TIME:	Click here to enter a date. Click here to enter text.				
NATURE OF INCIDENT:	LOSS OF POWER - COLLISION				
PERSONS ON BOARD:	LOSS OF LIFE:		No		
POSITION (GPS / GEOGRAPHIC):	VANCOUVER - 49.18.06.2N 123.05.45.6W				
<b>VESSEL PARTICULARS</b>					
LOA:	229.00	TYPE:	BULKER	VRN/CFV #:	
MMSI:	538004825	GRT:	44289	IMO:	9595589
DESTINATION:	VANCOUVER – ANCHORAGE D	LAST PORT:	SEATTLE, WA	CARGO:	
FLAG:	MARSHALL ISLANDS	OWNER/ AGENT CONTACT:		SHIP PHONE/SAT PHONE:	
ADDITIONAL VESSEL DETAILS:					
<b>SITUATION DETAILS</b>					
SITREP/RESOLUTION:		<p>AFTER CLEARING FIRST NARROWS VESSEL LOSES POWER.</p> <p>BEFORE ANY TUGS CAN ARRIVE TO ASSIST, THE VESSEL COLLIDES WITH THE PAN ACACIA/ 3FUG9 AT ANCHORAGE A.</p> <p>TUG SEASPAN RAVEN IS ON SCENE AND ASSISTING</p>			
INTENTIONS OF MASTER:					
ON-SCENE ASSISTANCE:					
POLLUTION/NAV HAZARD:					
<b>WEATHER DETAILS</b>					
VISIBILITY:		WIND (KNOTS):			
SEA STATE:		TIDE/CURRENT:			
<b>ALERT LIST (NAME AND DATE/TIME OF VERBAL ALERT)</b>					
CCG-W ER DUTY OFFICER (IF POLLUTION PRESENT OR RISK OF DISCHARGE)		Click here to enter a date. Click here to enter text.			
TSB SAFETY OFFICER (COMMERCIAL VESSEL ONLY OR LOSS OF LIFE ON ANY VESSEL)		Click here to enter a date. Click here to enter text.			
VANCOUVER HBR MASTER (ONLY IF WITHIN OR BOUND FOR VANCOUVER HARBOUR)		Click here to enter a date. Click here to enter text.			
		Click here to enter a date. Click here to enter text.			
MCTS OFFICER:		DG			
MCTS WATCH SUPERVISOR:		SO			

**VICTORIA MARINE COMMUNICATIONS AND TRAFFIC SERVICES**

**CANADIAN COAST GUARD/GOVERNMENT OF CANADA**

**SUPERVISOR.VICTORIA@INNAV.GC.CA /TEL: 250-363-6333 | 1-800-661-9202 / FAX: 250-363-6556**



Fisheries and Oceans  
Canada

Canadian  
Coast Guard

Pêches et Océans  
Canada

Garde côtière  
canadienne



Shift Supervisor - Victoria MCTS Centre

Telephone: 250-363-6333

Facsimile: 250-363-6556

Supervisor.Victoria@innav.gc.ca

Victoria Marine Communications & Traffic Services

P.O. Box 6000

9860 West Saanich Road

Sidney, BC, Canada, V8L 4B2

**Rear, Scott**

---

**From:** Supervisor.Victoria <Supervisor.Victoria@innav.gc.ca>  
**Sent:** 2019-March-18 7:31 PM  
**To:** CBSA Operations; NCC / CCN (DFO/MPO); CCG Western Aids to Navigation / Aides à la Navigation GCC (DFO/MPO); Payne, Stephen; Jourdenais, Marc; Carlow, Theresa; ROC1 / COR1 (DFO/MPO); ROC1 / COR1 (DFO/MPO); Evans, Clay; Clinton. Rebeiro@tsb-bst.gc.ca (Clinton.Rebeiro@tsb-bst.gc.ca); PAC Radio Room / Salle de radio PAC (DFO/MPO); Environment Canada (ec.cnue-neec.ec@canada.ca); Gascon, Julie; Glenn Budden (Glenn.Budden@tsb-bst.gc.ca); Harbour Master - Vancouver; Harbour Master- Victoria ; Harbour Master-Victoria Assistant ; Brady, Jeff; Victoria JRCC [DND]; Carrigan, Kevin; Fraser, Lee (Elizabeth); Mcculloch, Lisa; CCG MCTS RHQ Western / GCC SCTM bureau régional IQuest (DFO/MPO); Statham, Art; Mohan Raman (Mohan.Raman@tsb-bst.gc.ca); CCG West MSOC / COSM Ouest GCC (DFO/MPO); Pacific Pilotage Authority (info@ppa.gc.ca); Ramanbir. Mangat@tsb-bst.gc.ca (Ramanbir.Mangat@tsb-bst.gc.ca); RCMP West Coast Marine Services; Ciammaichella, Rita; SITCEN [TC]; TC Marine Safety - Vancouver; Transportation Safety Board - Pacific; Speed, Terry; Zillur. Rahman@tsb-bst.gc.ca (Zillur.Rahman@tsb-bst.gc.ca)  
**Cc:** Rawat, Shishir  
**Subject:** FW: 0176-2019-MOR-VIC-CARAVOS HARMONY/PAN ACACIA - ACCIDENT - VANCOUVER - UPDATE #12  
**Attachments:** Doc - Mar. 18 2019 - 5-52 p.m..pdf

UPDATE #12 2019-03-18 19:19 PDT

The captioned vessel's (MV CARAVOS HARMONY) detention was rescinded today at 1800 hrs. Documents attached.

Best regards,  
Capt. Khushru Irani  
Senior Marine Inspector,  
TCMS, Vancouver.  
Tel: 604-323 6409.

UPDATE #11 2019-03-17 0005 PDT

Port State Control inspection of MV PAN ACACIA is complete now and the vessel is detained.

Best Regards,

Mansoor Ahmed  
604-908-2026

UPDATE #10 2019-03-17 2006 PDT

Transport Canada. Marine Safety, Port State Control inspectors conducted PSC inspection of MV CAVAROS HARMONY and as a result the vessel is detained.

Best Regards,

Mansoor Ahmed  
604-908-2026

UPDATE# 9 3/17 1700PDT

ONE PICTURE OF EACH VESSEL IS ATTACHED. HOLE IN HULL PAN ACACIA, DAMAGE TO BOW CARAVOS HARMONY.

BOTH VESSEL MASTERS PREPARING REPORTS FOR INVESTIGATORS. MASTER OF CARAVOS HARMONY INDICATED THAT THE VOYAGE DATA RECORDER (VDR) WAS TURNED ON.

VANCOUVER HARBOURMASTER VESSEL WAS ONSCENE EARLY TODAY. NO PROBLEMS REPORTED. TYMAC LAUNCH VESSELS HAVE VISITED ONE OR BOTH VESSELS WITH AUTHORITIES.

UPDATE #8 3/17 0700 PDT

NO CHANGE IN STATUS.

UPDATE #7 3/17 0600 PDT

NO CHANGE IN STATUS

UPDATE #6 3/17 0500 PDT

NO CHANGE IN STATUS

UPDATE #5 3/17 0400 PDT

NO CHANGE IN STATUS

UPDATE #4 3/17 0300 PDT

ER REQUESTS THE VESSELS BE QUERIED EVERY HOUR REGARDING THEIR STATUS.

VESSELS QUERIED, NO CHANGE IN STATUS

UPDATE #3 3/17 0200 PDT

WITH THE ASSISTANCE OF THE TUG SEASPAN RAVEN, CARAVOS HARMONY ANCHORS AT ANCHORAGE A.

UPDATE #2 3/17

PAN ACACIA REPORTS NO INJURIES, NO POLLUTION.

CARAVOS HARMNOY REPORTS NO INJURIES, NO POLLUTION.



UPDATE #1 3/17 0030 PDT

TUG OCEAN GORDON REPORTS THE PAN ACACIA HAS A HOLE APROXIMATELY 10 FEET X 10 FEET ABOVE THE PORT HATCH.

CARAVOS HARMONY HAS DAMAGED TO THE BOW.

<b>GENERAL DATA – MARINE OCCURRENCE REPORT</b>					
VESSEL NAME/CALL SIGN/REG :		CARAVOS HARMONY/V7ZH2			
JRCC INCIDENT # :	V19-	PRIORITY:	-	BROADCAST:	-
INCIDENT START TIME:	17/Mar/2019 0020 PDT				
INCIDENT END TIME:	Click here to enter a date. Click here to enter text.				
NATURE OF INCIDENT:	LOSS OF POWER - COLLISION				
PERSONS ON BOARD:		LOSS OF LIFE:	No		
POSITION (GPS / GEOGRAPHIC):	VANCOUVER - 49.18.06.2N 123.05.45.6W				
<b>VESSEL PARTICULARS</b>					
LOA:	229.00	TYPE:	BULKER	VRN/CFV #:	
MMSI:	538004825	GRT:	44289	IMO:	9595589
DESTINATION:	VANCOUVER – ANCHORAGE D	LAST PORT:	SEATTLE, WA	CARGO:	
FLAG:	MARSHALL ISLANDS	OWNER/ AGENT CONTACT:		SHIP PHONE/SAT PHONE:	
ADDITIONAL VESSEL DETAILS:					
<b>SITUATION DETAILS</b>					
SITREP/RESOLUTION:		<p>AFTER CLEARING FIRST NARROWS VESSEL LOSES POWER.</p> <p>BEFORE ANY TUGS CAN ARRIVE TO ASSIST, THE VESSEL COLLIDES WITH THE PAN ACACIA/ 3FUG9 AT ANCHORAGE A.</p> <p>TUG SEASPAN RAVEN IS ON SCENE AND ASSISTING</p>			
INTENTIONS OF MASTER:					
ON-SCENE ASSISTANCE:					
POLLUTION/NAV HAZARD:					
<b>WEATHER DETAILS</b>					
VISIBILITY:		WIND (KNOTS):			



SEA STATE:		TIDE/CURRENT:	
<b>ALERT LIST (NAME AND DATE/TIME OF VERBAL ALERT)</b>			
CCG-W ER DUTY OFFICER (IF POLLUTION PRESENT OR RISK OF DISCHARGE)		Click here to enter a date. Click here to enter text.	
TSB SAFETY OFFICER (COMMERCIAL VESSEL ONLY OR LOSS OF LIFE ON ANY VESSEL)		Click here to enter a date. Click here to enter text.	
VANCOUVER HBR MASTER (ONLY IF WITHIN OR BOUND FOR VANCOUVER HARBOUR)		Click here to enter a date. Click here to enter text.	
		Click here to enter a date. Click here to enter text.	
MCTS OFFICER:		DG	
MCTS WATCH SUPERVISOR:		SO	
<b>VICTORIA MARINE COMMUNICATIONS AND TRAFFIC SERVICES</b> <b>CANADIAN COAST GUARD/GOVERNMENT OF CANADA</b> <b><u>SUPERVISOR.VICTORIA@INNAV.GC.CA</u> /TEL: 250-363-6333   1-800-661-9202 / FAX: 250-363-6556</b>			
 <div> <div> Fisheries and Oceans Canada </div> <div> Pêches et Océans Canada </div> </div> <div> <div> Canada Océans, Pêches </div> <div> Canada Pêches, Océans </div> </div> 			

Shift Supervisor - Victoria MCTS Centre  
Telephone: 250-363-6333  
Facsimile: 250-363-6556  
[Supervisor.Victoria@innav.gc.ca](mailto:Supervisor.Victoria@innav.gc.ca)

Victoria Marine Communications & Traffic Services  
P.O. Box 6000  
9860 West Saanich Road  
Sidney, BC, Canada, V8L 4B2

**Pages 80 to / à 87  
are withheld pursuant to section  
sont retenues en vertu de l'article**

**20(1)(c)**

**of the Access to Information Act  
de la Loi sur l'accès à l'information**

ATON type	Class	Type of ship	MMSI	IMO number	Call sign	Name	Destination	Latitude (DDMM.mmmmm)	Longitude (DDMM.mmmmm)	SOG (knts)	ROT (deg/min)	COG (deg)	True heading	Navigational status	Mag type	Port	Date time stamp
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY	CA VAN	4918.293	-12315.7383	12.2	-2.2	75.4	78	Under way using engine	1	10 208 34 241-9040	3/17/2019 6:30
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.308	-12315.6885	12.2	-2.2	75.5	78	Under way using engine	1	10 208 34 241-9040	3/17/2019 6:30
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.3086	-12315.6426	12.2	0	76.5	78	Under way using engine	1	10 208 34 241-9040	3/17/2019 6:30
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.3174	-12315.5898	12.2	0	77	78	Under way using engine	3	10 208 34 241-9040	3/17/2019 6:30
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.3237	-12315.5352	12.2	0	77.1	78	Under way using engine	1	10 208 34 241-9040	3/17/2019 6:30
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.3291	-12315.4935	12.2	0	77.2	78	Under way using engine	1	10 208 34 241-9040	3/17/2019 6:30
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.3364	-12315.4395	12.2	-1.1	77.3	78	Under way using engine	1	10 208 34 241-9040	3/17/2019 6:31
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.3442	-12315.3838	12.2	-1.1	77.4	78	Under way using engine	1	10 208 34 241-9040	3/17/2019 6:31
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.3506	-12315.3389	12.2	0	77.1	78	Under way using engine	1	10 208 34 241-9040	3/17/2019 6:31
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.3579	-12315.2891	12.2	0	77.5	78	Under way using engine	1	10 208 34 241-9040	3/17/2019 6:31
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.3657	-12315.2334	12.2	0	77.6	78	Under way using engine	1	10 208 34 241-9040	3/17/2019 6:31
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.3735	-12315.1885	12.2	0	77.4	78	Under way using engine	1	10 208 34 241-9040	3/17/2019 6:31
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.3818	-12315.1377	12.2	0	77.2	78	Under way using engine	1	10 208 34 241-9040	3/17/2019 6:32
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.3901	-12315.082	12.2	-1.1	77.3	78	Under way using engine	1	10 208 34 241-9040	3/17/2019 6:32
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.3979	-12315.0264	12.2	0	77.5	78	Under way using engine	1	10 208 34 241-9040	3/17/2019 6:32
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.4043	-12314.9805	12.2	0	77.6	78	Under way using engine	1	10 208 34 241-9040	3/17/2019 6:32
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.4116	-12314.9297	12.2	-1.1	78	78	Under way using engine	1	10 208 34 241-9040	3/17/2019 6:32
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.4199	-12314.874	12.2	0	77.8	78	Under way using engine	1	10 208 34 241-9040	3/17/2019 6:32
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.4253	-12314.833	12.2	-1.1	77.8	78	Under way using engine	1	10 208 34 241-9040	3/17/2019 6:33
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.4331	-12314.7773	12.2	-2.2	77.4	78	Under way using engine	1	10 208 34 241-9040	3/17/2019 6:33
Unknown	CA																

ATON type	Class	Type of ship	MMSI	IMO number	Call sign	Name	Destination	Latitude (DDMM.mmmmm)	Longitude (DDMM.mmmmm)	ROT (deg/min)	COG (deg)	True heading	Navigational status	Msg type	Port	Date time stamp
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY	CA VAN	4918.6567	-12313.1758	11.7	0	78	78 Under way using engine	1	10208.34.241-9040	3/17/2019 6:38
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.6636	-12313.1279	11.7	0	77.9	78 Under way using engine	1	10208.34.241-9040	3/17/2019 6:38
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.6709	-12313.0752	11.6	0	77.6	78 Under way using engine	1	10208.34.241-9040	3/17/2019 6:38
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.6768	-12313.0322	11.5	0	77.3	77 Under way using engine	1	10208.34.241-9040	3/17/2019 6:39
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.6841	-12312.9844	11.5	-2.2	77.1	78 Under way using engine	1	10208.34.241-9040	3/17/2019 6:39
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.6909	-12312.9375	11.5	0	77.4	78 Under way using engine	1	10208.34.241-9040	3/17/2019 6:39
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.6973	-12312.8945	11.5	-1.1	77.6	78 Under way using engine	1	10208.34.241-9040	3/17/2019 6:39
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.7046	-12312.8447	11.4	0	77.6	78 Under way using engine	1	10208.34.241-9040	3/17/2019 6:39
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.7129	-12312.7871	11.3	-1.1	77.7	78 Under way using engine	1	10208.34.241-9040	3/17/2019 6:39
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.7192	-12312.7451	11.3	-1.1	77.6	78 Under way using engine	1	10208.34.241-9040	3/17/2019 6:40
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.7261	-12312.6943	11.2	-2.2	77.6	78 Under way using engine	1	10208.34.241-9040	3/17/2019 6:40
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.7334	-12312.6475	11.2	0	77.6	78 Under way using engine	1	10208.34.241-9040	3/17/2019 6:40
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.7393	-12312.6055	11.2	0	77.5	78 Under way using engine	1	10208.34.241-9040	3/17/2019 6:40
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.7456	-12312.5586	11.2	0	77.7	78 Under way using engine	1	10208.34.241-9040	3/17/2019 6:40
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.7524	-12312.5098	11.1	0	77.8	78 Under way using engine	1	10208.34.241-9040	3/17/2019 6:40
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.7583	-12312.4688	11.1	-2.9	77.1	78 Under way using engine	1	10208.34.241-9040	3/17/2019 6:41
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.7651	-12312.4189	11	-1.1	77.3	78 Under way using engine	1	10208.34.241-9040	3/17/2019 6:41
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY							Unknown	5	10208.34.241-9040	3/17/2019 6:41
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.7764	-12312.332	10.9	0	78.1	78 Under way using engine	1	10208.34.241-9040	3/17/2019 6:41
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.7817	-12312.291	10.9	-2.2	78.2	78 Under way using engine	1	10208.34.241-9040	3/17/2019 6:41
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.7886	-12312.2422	10.8	-1.1	78.4	78 Under way using engine	1	10208.34.241-9040	3/17/2019 6:41
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.7944	-12312.1973	10.7	-1.1	78.4	78 Under way using engine	1	10208.34.241-9040	3/17/2019 6:41
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.8008	-12312.1533	10.7	0	78	78 Under way using engine	1	10208.34.241-9040	3/17/2019 6:42
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.8071	-12312.1045	10.6	0	77.6	78 Under way using engine	1	10208.34.241-9040	3/17/2019 6:42
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.8125	-12312.0654	10.6	-1.1	77.9	78 Under way using engine	1	10208.34.241-9040	3/17/2019 6:42
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.8179	-12312.0205	10.5	-2.2	77.8	78 Under way using engine	1	10208.34.241-9040	3/17/2019 6:42
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.8242	-12311.9775	10.5	0	77.4	78 Under way using engine	1	10208.34.241-9040	3/17/2019 6:42
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.8306	-12311.9336	10.4	-1.1	77.1	78 Under way using engine	1	10208.34.241-9040	3/17/2019 6:43
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.8364	-12311.8955	10.4	-2.2	77	78 Under way using engine	1	10208.34.241-9040	3/17/2019 6:43
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.8442	-12311.8447	10.3	0	77.4	78 Under way using engine	1	10208.34.241-9040	3/17/2019 6:43
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.8496	-12311.8076	10.3	0	78	78 Under way using engine	1	10208.34.241-9040	3/17/2019 6:43
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.855	-12311.7695	10.2	0	78.2	78 Under way using engine	1	10208.34.241-9040	3/17/2019 6:43
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.8613	-12311.7227	10.2	-1.1	78.2	78 Under way using engine	1	10208.34.241-9040	3/17/2019 6:43
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.8662	-12311.6797	10.1	0	78.1	78 Under way using engine	1	10208.34.241-9040	3/17/2019 6:44
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.8711	-12311.6416	10	0	78.1	78 Under way using engine	1	10208.34.241-9040	3/17/2019 6:44
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.8779	-12311.5967	9.9	-2.9	76.9	78 Under way using engine	1	10208.34.241-9040	3/17/2019 6:44
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.8843	-12311.5566	9.8	-5.4	76.1	79 Under way using engine	1	10208.34.241-9040	3/17/2019 6:44
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.8901	-12311.5205	9.7	-5.4	76.8	79 Under way using engine	1	10208.34.241-9040	3/17/2019 6:44
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.8975	-12311.4727	9.7	-5.4	77.6	80 Under way using engine	1	10208.34.241-9040	3/17/2019 6:44
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.9033	-12311.4326	9.6	-5.4	77.9	81 Under way using engine	1	10208.34.241-9040	3/17/2019 6:45
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.9077	-12311.4014	9.5	-5.4	78.2	82 Under way using engine	1	10208.34.241-9040	3/17/2019 6:45
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.9131	-12311.3623	9.5	-5.4	78.8	82 Under way using engine	1	10208.34.241-9040	3/17/2019 6:45
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.9189	-12311.3154	9.4	-2.9	79.9	83 Under way using engine	1	10208.34.241-9040	3/17/2019 6:45
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.9224	-12311.2842	9.3	-2.9	81.1	84 Under way using engine	1	10208.34.241-9040	3/17/2019 6:45
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.9263	-12311.2412	9.2	-2.2	82.3	84 Under way using engine	1	10208.34.241-9040	3/17/2019 6:45
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.9297	-12311.2021	9.2	-2.2	82.1	84 Under way using engine	1	10208.34.241-9040	3/17/2019 6:46
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.9326	-12311.168	9.1	-1.1	82.1	84 Under way using engine	1	10208.34.241-9040	3/17/2019 6:46
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.936	-12311.1299	9.1	-1.1	82.5	84 Under way using engine	1	10208.34.241-9040	3/17/2019 6:46
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.9395	-12311.0879	9	-2.2	82.9	85 Under way using engine	1	10208.34.241-9040	3/17/2019 6:46
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.9424	-12311.0537	9	-2.2	83.1	85 Under way using engine	1	10208.34.241-9040	3/17/2019 6:46
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.9453	-12311.0127	8.9	-2.2	83.7	85 Under way using engine	1	10208.34.241-9040	3/17/2019 6:46
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.9478	-12310.9756	8.8	0	84	85 Under way using engine	1	10208.34.241-9040	3/17/2019 6:47

ATON type	Class	Type of ship	MMSI	IMO number	Call sign	Name	Destination	Latitude (DDMM.mmmmm)	Longitude (DDMM.mmmmm)	ROT (deg/min)	COG (deg)	True heading	Navigational status	Msg type	Port	Date time stamp
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY	CA VAN	4918.9497	-12310.9453	8.8	0	84.1	85 Under way using engine	1	10208.34.241-9040	3/17/2019 6:47
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.9521	-12310.9053	8.7	0	84.4	85 Under way using engine	5	10208.34.241-9040	3/17/2019 6:47
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.9551	-12310.8604	8.7	0	84.6	85 Under way using engine	1	10208.34.241-9040	3/17/2019 6:47
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.9565	-12310.8311	8.6	0	84.6	85 Under way using engine	1	10208.34.241-9040	3/17/2019 6:47
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY	CA VAN	4918.959	-12310.791	8.6	0	84.6	85 Under way using engine	1	10208.34.241-9040	3/17/2019 6:47
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.9609	-12310.7559	8.5	0	84.9	85 Under way using engine	1	10208.34.241-9040	3/17/2019 6:47
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.9629	-12310.7227	8.5	-1.1	85	85 Under way using engine	1	10208.34.241-9040	3/17/2019 6:48
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.9648	-12310.6875	8.4	-2.2	84.9	85 Under way using engine	1	10208.34.241-9040	3/17/2019 6:48
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY	CA VAN	4918.9673	-12310.6484	8.4	0	84.4	85 Under way using engine	1	10208.34.241-9040	3/17/2019 6:48
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.9692	-12310.6162	8.3	-2.2	83.7	85 Under way using engine	1	10208.34.241-9040	3/17/2019 6:48
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.9722	-12310.5771	8.3	-2.9	83.1	86 Under way using engine	1	10208.34.241-9040	3/17/2019 6:48
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.9751	-12310.543	8.2	-3.6	83.5	86 Under way using engine	1	10208.34.241-9040	3/17/2019 6:49
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY	CA VAN	4918.9775	-12310.5078	8.2	-2.2	84.2	87 Under way using engine	1	10208.34.241-9040	3/17/2019 6:49
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.979	-12310.4805	8.2	-2.9	84.5	87 Under way using engine	1	10208.34.241-9040	3/17/2019 6:49
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.9814	-12310.4385	8.1	-2.2	85.3	88 Under way using engine	1	10208.34.241-9040	3/17/2019 6:49
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.9829	-12310.4082	8.1	-1.1	85.7	88 Under way using engine	1	10208.34.241-9040	3/17/2019 6:49
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY	CA VAN	4918.9849	-12310.3672	8	-1.1	86.2	88 Under way using engine	1	10208.34.241-9040	3/17/2019 6:49
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.9863	-12310.3369	8	0	86.8	88 Under way using engine	1	10208.34.241-9040	3/17/2019 6:50
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.9873	-12310.3027	8	0	86.9	88 Under way using engine	1	10208.34.241-9040	3/17/2019 6:50
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.9883	-12310.2725	8	0	87.2	88 Under way using engine	1	10208.34.241-9040	3/17/2019 6:50
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY	CA VAN	4918.9893	-12310.2383	7.9	0	87.1	88 Under way using engine	1	10208.34.241-9040	3/17/2019 6:50
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.9907	-12310.1982	7.9	0	87.1	88 Under way using engine	1	10208.34.241-9040	3/17/2019 6:50
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.9917	-12310.168	7.9	0	87.2	88 Under way using engine	1	10208.34.241-9040	3/17/2019 6:50
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.9927	-12310.1348	7.8	-1.1	87.1	88 Under way using engine	1	10208.34.241-9040	3/17/2019 6:51
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY	CA VAN	4918.9932	-12310.1025	7.8	-1.1	87	88 Under way using engine	1	10208.34.241-9040	3/17/2019 6:51
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.9937	-12310.0732	7.8	0	87	88 Under way using engine	1	10208.34.241-9040	3/17/2019 6:51
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.9941	-12310.041	7.7	-1.1	86.9	88 Under way using engine	1	10208.34.241-9040	3/17/2019 6:51
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.9951	-12310.0049	7.6	0	87.2	88 Under way using engine	1	10208.34.241-9040	3/17/2019 6:51
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY	CA VAN	4918.9956	-12309.9766	7.6	0	87.4	88 Under way using engine	1	10208.34.241-9040	3/17/2019 6:51
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.9966	-12309.9404	7.5	0	87.2	88 Under way using engine	1	10208.34.241-9040	3/17/2019 6:52
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.9985	-12309.9111	7.5	0	87.1	88 Under way using engine	1	10208.34.241-9040	3/17/2019 6:52
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4919.001	-12309.874	7.5	-1.1	86.6	88 Under way using engine	1	10208.34.241-9040	3/17/2019 6:52
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY	CA VAN	4919.0029	-12309.8418	7.4	0	86.9	88 Under way using engine	1	10208.34.241-9040	3/17/2019 6:52
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4919.0049	-12309.8057	7.5	-1.1	86.4	88 Under way using engine	1	10208.34.241-9040	3/17/2019 6:52
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4919.0063	-12309.7773	7.5	0	86.2	88 Under way using engine	1	10208.34.241-9040	3/17/2019 6:52
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4919.0073	-12309.7461	7.4	0	86.2	88 Under way using engine	1	10208.34.241-9040	3/17/2019 6:53
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY	CA VAN	4919.0088	-12309.7148	7.4	-1.1	86.2	88 Under way using engine	1	10208.34.241-9040	3/17/2019 6:53
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4919.0103	-12309.6826	7.4	-2.2	86	88 Under way using engine	1	10208.34.241-9040	3/17/2019 6:53
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4919.0112	-12309.6553	7.4	-1.1	86	89 Under way using engine	1	10208.34.241-9040	3/17/2019 6:53
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4919.0127	-12309.6211	7.3	-2.2	86	89 Under way using engine	1	10208.34.241-9040	3/17/2019 6:53
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY	CA VAN	4919.0142	-12309.5928	7.3	-2.2	86.2	89 Under way using engine	1	10208.34.241-9040	3/17/2019 6:53
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4919.0151	-12309.5586	7.3	0	87.3	89 Under way using engine	1	10208.34.241-9040	3/17/2019 6:54
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4919.0156	-12309.5312	7.2	-1.1	87.7	89 Under way using engine	1	10208.34.241-9040	3/17/2019 6:54
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4919.0166	-12309.4971	7.2	0	87.4	89 Under way using engine	1	10208.34.241-9040	3/17/2019 6:54
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY	CA VAN	4919.0171	-12309.4668	7.2	-1.1	86.5	89 Under way using engine	1	10208.34.241-9040	3/17/2019 6:54
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4919.0186	-12309.4365	7.2	-3.6	85.2	89 Under way using engine	1	10208.34.241-9040	3/17/2019 6:54
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4919.02	-12309.4092	7.2	-5.4	85.5	90 Under way using engine	1	10208.34.241-9040	3/17/2019 6:54
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4919.022	-12309.376	7.1	-5.4	85.7	91 Under way using engine	1	10208.34.241-9040	3/17/2019 6:55
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY	CA VAN	4919.0234	-12309.3457	7.1	-5.4	86.3	92 Under way using engine	1	10208.34.241-9040	3/17/2019 6:55
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4919.0244	-12309.3154	7.1	-6.4	87	93 Under way using engine	1	10208.34.241-9040	3/17/2019 6:55

ATON type	Class	Type of ship	MMSI	IMO number	Call sign	Name	Destination	Latitude (DDMM.mmmmm)	Longitude (DDMM.mmmmm)	ROT (deg/min)	COG (deg)	True heading	Navigational status	Msg type	Port	Date time stamp
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY	CA VAN	4919.0254	-12309.2861	7.1	-6.4	88	94 Under way using engine	1	10208.34.241-9040	3/17/2019 6:55
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4919.0259	-12309.2529	7	-6.4	88.8	95 Under way using engine	1	10208.34.241-9040	3/17/2019 6:55
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4919.0259	-12309.2256	7	-7.5	89.6	96 Under way using engine	1	10208.34.241-9040	3/17/2019 6:55
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4919.0259	-12309.1963	7	-7.5	90.3	97 Under way using engine	1	10208.34.241-9040	3/17/2019 6:56
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4919.0254	-12309.1689	7	-6.4	91.1	98 Under way using engine	1	10208.34.241-9040	3/17/2019 6:56
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4919.0254	-12309.1367	6.9	-5.4	92.9	99 Under way using engine	1	10208.34.241-9040	3/17/2019 6:56
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4919.0234	-12309.1074	6.9	-5.4	94.7	100 Under way using engine	1	10208.34.241-9040	3/17/2019 6:56
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4919.0215	-12309.0811	6.8	-2.2	96.4	101 Under way using engine	1	10208.34.241-9040	3/17/2019 6:56
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4919.019	-12309.0518	6.8	0	98	101 Under way using engine	1	10208.34.241-9040	3/17/2019 6:56
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4919.0156	-12309.0234	6.8	0	99	101 Under way using engine	1	10208.34.241-9040	3/17/2019 6:57
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4919.0127	-12309.9941	6.8	0	99	101 Under way using engine	1	10208.34.241-9040	3/17/2019 6:57
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY	CA VAN	4919.0098	-12308.9658	6.8	-1.1	99.2	101 Under way using engine	1	10208.34.241-9040	3/17/2019 6:57
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4919.0068	-12308.9346	6.8	-3.6	98.5	101 Under way using engine	1	10208.34.241-9040	3/17/2019 6:57
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4919.0044	-12308.9082	6.8	-5.4	98.1	102 Under way using engine	1	10208.34.241-9040	3/17/2019 6:57
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4919.0015	-12308.876	6.8	-5.4	98.2	103 Under way using engine	1	10208.34.241-9040	3/17/2019 6:57
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.9985	-12308.8477	6.8	-7.5	98.5	104 Under way using engine	1	10208.34.241-9040	3/17/2019 6:58
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.9961	-12308.8213	6.8	-8.7	98.4	105 Under way using engine	1	10208.34.241-9040	3/17/2019 6:58
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.9932	-12308.7891	6.8	-7.5	99	107 Under way using engine	1	10208.34.241-9040	3/17/2019 6:58
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.9897	-12308.7607	6.8	-8.7	100.4	109 Under way using engine	1	10208.34.241-9040	3/17/2019 6:58
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.9863	-12308.7344	6.8	-10	101.2	110 Under way using engine	1	10208.34.241-9040	3/17/2019 6:58
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.9819	-12308.7031	6.8	-11.4	102.4	112 Under way using engine	1	10208.34.241-9040	3/17/2019 6:58
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.9775	-12308.6748	6.8	-7.5	104.8	114 Under way using engine	1	10208.34.241-9040	3/17/2019 6:59
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.9727	-12308.6504	6.8	-6.4	106.7	115 Under way using engine	1	10208.34.241-9040	3/17/2019 6:59
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY	CA VAN	4918.9673	-12308.623	6.7	-5.4	108.5	Unknown	5	10208.34.241-9040	3/17/2019 6:59
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.96	-12308.5928	6.8	-2.9	110.5	116 Under way using engine	1	10208.34.241-9040	3/17/2019 6:59
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.9541	-12308.5684	6.8	0	112.1	117 Under way using engine	1	10208.34.241-9040	3/17/2019 6:59
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.9458	-12308.5391	6.8	-2.2	112.5	117 Under way using engine	1	10208.34.241-9040	3/17/2019 6:59
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.9385	-12308.5117	6.9	-2.9	111.9	117 Under way using engine	1	10208.34.241-9040	3/17/2019 7:00
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.9321	-12308.4863	7	-5.4	111.7	118 Under way using engine	1	10208.34.241-9040	3/17/2019 7:00
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.9243	-12308.4561	7	-7.5	112.2	119 Under way using engine	1	10208.34.241-9040	3/17/2019 7:00
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.9165	-12308.4287	7	-7.5	112.8	121 Under way using engine	1	10208.34.241-9040	3/17/2019 7:00
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.9097	-12308.4043	7	-7.5	114	122 Under way using engine	1	10208.34.241-9040	3/17/2019 7:00
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.9009	-12308.374	7	-7.5	115.7	124 Under way using engine	1	10208.34.241-9040	3/17/2019 7:00
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.8906	-12308.3555	7	-6.4	116.6	125 Under way using engine	1	10208.34.241-9040	3/17/2019 7:01
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY	CA VAN	4918.8818	-12308.3311	7	-5.4	119	126 Under way using engine	1	10208.34.241-9040	3/17/2019 7:01
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.8726	-12308.3018	7.1	-2.2	121.5	126 Under way using engine	1	10208.34.241-9040	3/17/2019 7:01
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.8613	-12308.2725	7.1	0	123.7	127 Under way using engine	1	10208.34.241-9040	3/17/2019 7:01
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.8516	-12308.25	7.1	-2.9	125.3	126 Under way using engine	1	10208.34.241-9040	3/17/2019 7:01
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.8374	-12308.2246	7.2	-2.2	126.1	126 Under way using engine	1	10208.34.241-9040	3/17/2019 7:02
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.8267	-12308.2021	7.3	-1.1	125.3	125 Under way using engine	1	10208.34.241-9040	3/17/2019 7:02
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.8169	-12308.1787	7.3	-1.1	124.2	126 Under way using engine	1	10208.34.241-9040	3/17/2019 7:02
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.8047	-12308.1504	7.4	-2.2	124.5	126 Under way using engine	3	10208.34.241-9040	3/17/2019 7:02
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.7939	-12308.1201	7.4	-1.1	125.1	126 Under way using engine	1	10208.34.241-9040	3/17/2019 7:02
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.7832	-12308.0928	7.4	-1.1	125.6	126 Under way using engine	1	10208.34.241-9040	3/17/2019 7:02
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.77	-12308.0684	7.4	0	126.3	126 Under way using engine	1	10208.34.241-9040	3/17/2019 7:02
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY	CA VAN	4918.7568	-12308.043	7.4	0	126.9	126 Under way using engine	1	10208.34.241-9040	3/17/2019 7:03
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.7456	-12308.0205	7.4	-1.1	127.1	126 Under way using engine	1	10208.34.241-9040	3/17/2019 7:03
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.7319	-12307.9902	7.4	-2.2	127.5	126 Under way using engine	1	10208.34.241-9040	3/17/2019 7:03
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.7197	-12307.9639	7.4	-2.2	127.4	126 Under way using engine	1	10208.34.241-9040	3/17/2019 7:03
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.7085	-12307.9414	7.4	-1.1	126.9	125 Under way using engine	1	10208.34.241-9040	3/17/2019 7:03
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4918.6953	-12307.9141	7.4	-2.2	127.1	125 Under way using engine	1	10208.34.241-9040	3/17/2019 7:03











ATON type	Class	Type of ship	MMSI	IMO	number	Call sign	Name	Latitude	Longitude	Speed (knots)	Course (deg)	Heading	Navigation status	MMSI type	Date time stamp
Unknown	Unknown	Cargo ship No additional information	5308040825	CAVAN	5358558	CAVANV	CAVANV HARMONY	4918.0596	-120.0535	0.3	-8.6	34.7	Under way using engine	52	17/01/2019 7:38
Unknown	Unknown	Cargo ship No additional information	5308040825	CAVAN	5358558	CAVANV	CAVANV HARMONY	4918.0601	-120.0535	0.3	-2.9	34.7	Under way using engine	52	17/01/2019 7:38
Unknown	Unknown	Cargo ship No additional information	5308040825	CAVAN	5358558	CAVANV	CAVANV HARMONY	4918.062	-120.0535	0.3	-2.2	34.7	Under way using engine	53	17/01/2019 7:38
Unknown	Unknown	Cargo ship No additional information	5308040825	CAVAN	5358558	CAVANV	CAVANV HARMONY	4918.0625	-120.0535	0.4	-2.2	34.7	Under way using engine	54	17/01/2019 7:39
Unknown	Unknown	Cargo ship No additional information	5308040825	CAVAN	5358558	CAVANV	CAVANV HARMONY	4918.065	-120.0535	0.3	-2.2	34.7	Under way using engine	54	17/01/2019 7:39
Unknown	Unknown	Cargo ship No additional information	5308040825	CAVAN	5358558	CAVANV	CAVANV HARMONY	4918.067	-120.0535	0.4	-2.2	34.7	Under way using engine	55	17/01/2019 7:39
Unknown	Unknown	Cargo ship No additional information	5308040825	CAVAN	5358558	CAVANV	CAVANV HARMONY	4918.068	-120.0535	0.4	-2.2	34.7	Under way using engine	55	17/01/2019 7:39
Unknown	Unknown	Cargo ship No additional information	5308040825	CAVAN	5358558	CAVANV	CAVANV HARMONY	4918.0708	-120.0535	0.4	-2.2	34.7	Under way using engine	56	17/01/2019 7:40
Unknown	Unknown	Cargo ship No additional information	5308040825	CAVAN	5358558	CAVANV	CAVANV HARMONY	4918.0698	-120.0535	0.4	-2.2	34.7	Under way using engine	56	17/01/2019 7:40
Unknown	Unknown	Cargo ship No additional information	5308040825	CAVAN	5358558	CAVANV	CAVANV HARMONY	4918.0688	-120.0535	0.4	-1.1	34.7	Under way using engine	55	17/01/2019 7:40
Unknown	Unknown	Cargo ship No additional information	5308040825	CAVAN	5358558	CAVANV	CAVANV HARMONY	4918.0679	-120.0535	0.4	-2.2	34.7	Under way using engine	55	17/01/2019 7:40
Unknown	Unknown	Cargo ship No additional information	5308040825	CAVAN	5358558	CAVANV	CAVANV HARMONY	4918.0664	-120.0535	0.4	-2.2	34.7	Under way using engine	55	17/01/2019 7:40
Unknown	Unknown	Cargo ship No additional information	5308040825	CAVAN	5358558	CAVANV	CAVANV HARMONY	4918.0654	-120.0535	0.4	-2.2	34.7	Under way using engine	55	17/01/2019 7:40
Unknown	Unknown	Cargo ship No additional information	5308040825	CAVAN	5358558	CAVANV	CAVANV HARMONY	4918.0636	-120.0535	0.4	-2.2	34.7	Under way using engine	54	17/01/2019 7:40
Unknown	Unknown	Cargo ship No additional information	5308040825	CAVAN	5358558	CAVANV	CAVANV HARMONY	4918.0625	-120.0535	0.3	-2.2	34.7	Under way using engine	54	17/01/2019 7:40
Unknown	Unknown	Cargo ship No additional information	5308040825	CAVAN	5358558	CAVANV	CAVANV HARMONY	4918.0615	-120.0535	0.3	-2.2	34.7	Under way using engine	54	17/01/2019 7:40
Unknown	Unknown	Cargo ship No additional information	5308040825	CAVAN	5358558	CAVANV	CAVANV HARMONY	4918.062	-120.0535	0.3	-2.2	34.7	Under way using engine	53	17/01/2019 7:40
Unknown	Unknown	Cargo ship No additional information	5308040825	CAVAN	5358558	CAVANV	CAVANV HARMONY	4918.061	-120.0535	0.3	-2.2	34.7	Under way using engine	53	17/01/2019 7:40
Unknown	Unknown	Cargo ship No additional information	5308040825	CAVAN	5358558	CAVANV	CAVANV HARMONY	4918.0601	-120.0535	0.3	-2.9	34.7	Under way using engine	52	17/01/2019 7:38
Unknown	Unknown	Cargo ship No additional information	5308040825	CAVAN	5358558	CAVANV	CAVANV HARMONY	4918.0596	-120.0535	0.3	-8.6	34.7	Under way using engine	52	17/01/2019 7:38









ATON type	Class	Type of ship	MMSI	IMO	Number	Call sign	Name	Destination	Latitude (DDMM.mmmmm)	Longitude (DDMM.mmmmm)	SOG (knts)	ROT (deg/min)	True heading	Navigation status	Meg type	Port	Date time stamp
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.7559	-12304.9366	1.2	7.5	118.1	Under way using engine	199	110.08.34.241.9040	3/17/2019 8:21
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.7544	-12304.9287	1.1	6.4	117.6	Under way using engine	201	110.08.34.241.9040	3/17/2019 8:21
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.7925	-12304.9258	1.1	5.4	120.9	Under way using engine	202	110.08.34.241.9040	3/17/2019 8:21
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.7905	-12304.9219	1.1	5.4	124.4	Under way using engine	203	110.08.34.241.9040	3/17/2019 8:21
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.7881	-12304.918	1.1	5.4	126.8	Under way using engine	204	110.08.34.241.9040	3/17/2019 8:22
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.7861	-12304.9141	1.1	6.4	128.8	Under way using engine	205	110.08.34.241.9040	3/17/2019 8:22
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.7842	-12304.9102	1.1	5.4	131.7	Under way using engine	206	110.08.34.241.9040	3/17/2019 8:22
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.7812	-12304.9062	1.1	6.4	133.2	Under way using engine	207	110.08.34.241.9040	3/17/2019 8:22
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.7788	-12304.9023	1.3	7.5	136	Under way using engine	208	110.08.34.241.9040	3/17/2019 8:22
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.7759	-12304.8984	1.3	7.5	138.7	Under way using engine	210	110.08.34.241.9040	3/17/2019 8:22
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.7725	-12304.8955	1.3	8.7	139.9	Under way using engine	211	110.08.34.241.9040	3/17/2019 8:23
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY	CA VAN	4917.769	-12304.8926	1.3	10	149	Unknown		110.08.34.241.9040	3/17/2019 8:23
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.7656	-12304.8906	1.4	10	149.9	Under way using engine	214	110.08.34.241.9040	3/17/2019 8:23
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.7612	-12304.8908	1.4	10	148.9	Under way using engine	216	110.08.34.241.9040	3/17/2019 8:23
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.7573	-12304.8877	1.4	10	153.9	Under way using engine	218	110.08.34.241.9040	3/17/2019 8:23
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.7539	-12304.8848	1.4	7.5	157	Under way using engine	219	110.08.34.241.9040	3/17/2019 8:23
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.75	-12304.8818	1.4	7.5	160.6	Under way using engine	221	110.08.34.241.9040	3/17/2019 8:23
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.7461	-12304.8799	1.3	7.5	164.5	Under way using engine	222	110.08.34.241.9040	3/17/2019 8:24
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.7422	-12304.8789	1.3	7.5	165.6	Under way using engine	223	110.08.34.241.9040	3/17/2019 8:24
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.7383	-12304.8779	1.3	7.5	167.1	Under way using engine	225	110.08.34.241.9040	3/17/2019 8:24
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.7349	-12304.877	1.2	7.5	168.1	Under way using engine	226	110.08.34.241.9040	3/17/2019 8:24
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.7324	-12304.876	1.2	7.5	169.1	Under way using engine	227	110.08.34.241.9040	3/17/2019 8:24
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.7285	-12304.874	1.2	8.7	170.8	Under way using engine	228	110.08.34.241.9040	3/17/2019 8:25
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.7256	-12304.876	1.2	7.5	171.2	Under way using engine	230	110.08.34.241.9040	3/17/2019 8:25
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.7222	-12304.8721	1.2	10	171.9	Under way using engine	231	110.08.34.241.9040	3/17/2019 8:25
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.7183	-12304.8721	1.1	8.7	174.9	Under way using engine	233	110.08.34.241.9040	3/17/2019 8:25
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.7144	-12304.8721	1.1	8.7	175.2	Under way using engine	235	110.08.34.241.9040	3/17/2019 8:25
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.7056	-12304.8711	1	8.7	178.4	Under way using engine	239	110.08.34.241.9040	3/17/2019 8:26
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.7031	-12304.8711	1	10	181.4	Under way using engine	242	110.08.34.241.9040	3/17/2019 8:26
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.6973	-12304.874	0.9	0.9	184.4	Under way using engine	245	110.08.34.241.9040	3/17/2019 8:26
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.6948	-12304.875	0.8	6.4	190.2	Under way using engine	246	110.08.34.241.9040	3/17/2019 8:27
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.6914	-12304.874	0.7	6.4	200.9	Under way using engine	248	110.08.34.241.9040	3/17/2019 8:27
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.6885	-12304.875	0.7	3.6	217.7	Under way using engine	249	110.08.34.241.9040	3/17/2019 8:27
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.6885	-12304.8789	0.7	2.2	220.6	Under way using engine	249	110.08.34.241.9040	3/17/2019 8:27
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.6851	-12304.8809	0.7	2.2	225.1	Under way using engine	249	110.08.34.241.9040	3/17/2019 8:27
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.6836	-12304.8828	0.7	2.2	227.2	Under way using engine	250	110.08.34.241.9040	3/17/2019 8:28
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.6821	-12304.8838	0.7	1.1	228.7	Under way using engine	251	110.08.34.241.9040	3/17/2019 8:28
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.6802	-12304.8857	0.7	1.1	233	Under way using engine	251	110.08.34.241.9040	3/17/2019 8:28
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.6782	-12304.8867	0.7	1.1	233	Under way using engine	251	110.08.34.241.9040	3/17/2019 8:28
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.6763	-12304.8887	0.7	0.7	233.7	Under way using engine	251	110.08.34.241.9040	3/17/2019 8:28
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.6753	-12304.8955	0.6	1.1	231.8	Under way using engine	251	110.08.34.241.9040	3/17/2019 8:29
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.6743	-12304.8975	0.6	2.2	228.4	Under way using engine	252	110.08.34.241.9040	3/17/2019 8:29
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.6733	-12304.8994	0.6	1.1	228.4	Under way using engine	252	110.08.34.241.9040	3/17/2019 8:29
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.6719	-12304.9004	0.5	1.1	235.4	Under way using engine	252	110.08.34.241.9040	3/17/2019 8:29
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.6709	-12304.9014	0.4	1.1	230.9	Under way using engine	252	110.08.34.241.9040	3/17/2019 8:29



ATON type	Class	Type of ship	MMSI	IMO	Number	Call sign	Name	Destination	Latitude (DDMM.kmmmm)	Longitude (DDMM.kmmmm)	SOG (knts)	ROT (deg/min)	COG (deg)	True heading	Navigation status	Registration status	Msg type	Port	Date time stamp
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.6694	-12304.9033	0.4	1.1	22.2	253	Under way using engine	1	10.208.34.241.9040	3/17/2019 8:29	
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.6685	-12304.9043	0.4	1.1	22.2	253	Under way using engine	1	10.208.34.241.9040	3/17/2019 8:30	
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.6675	-12304.9053	0.3	1.1	21.4	253	Under way using engine	1	10.208.34.241.9040	3/17/2019 8:30	
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.6665	-12304.9063	0.3	1.1	20.2	253	Under way using engine	1	10.208.34.241.9040	3/17/2019 8:30	
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.6666	-12304.9062	0.2	1.1	20.2	254	Under way using engine	1	10.208.34.241.9040	3/17/2019 8:30	
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.6641	-12304.9072	0.2	2.2	183.1	254	Under way using engine	1	10.208.34.241.9040	3/17/2019 8:30	
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.6636	-12304.9072	0.2	2.2	176.4	254	Under way using engine	1	10.208.34.241.9040	3/17/2019 8:31	
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.6626	-12304.9072	0.2	2.2	164.6	255	Under way using engine	1	10.208.34.241.9040	3/17/2019 8:31	
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.6621	-12304.9082	0.2	1.1	149.1	255	Under way using engine	1	10.208.34.241.9040	3/17/2019 8:31	
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.6616	-12304.9083	0.2	2.2	118.6	255	Under way using engine	1	10.208.34.241.9040	3/17/2019 8:31	
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.6611	-12304.9093	0.2	1.1	108.3	256	Under way using engine	1	10.208.34.241.9040	3/17/2019 8:32	
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.6606	-12304.9033	0.3	2.2	98.2	256	Under way using engine	1	10.208.34.241.9040	3/17/2019 8:32	
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.6606	-12304.9014	0.3	1.1	95.6	256	Under way using engine	1	10.208.34.241.9040	3/17/2019 8:32	
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.6602	-12304.9004	0.3	1.1	95.8	256	Under way using engine	1	10.208.34.241.9040	3/17/2019 8:32	
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.6602	-12304.8984	0.4	2.2	92.7	256	Under way using engine	1	10.208.34.241.9040	3/17/2019 8:32	
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.6597	-12304.8965	0.4	2.2	88.4	257	Under way using engine	1	10.208.34.241.9040	3/17/2019 8:33	
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.6597	-12304.8945	0.4	1.1	89.5	257	Under way using engine	1	10.208.34.241.9040	3/17/2019 8:33	
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.6597	-12304.8936	0.5	1.1	87.4	257	Under way using engine	1	10.208.34.241.9040	3/17/2019 8:33	
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.6597	-12304.8906	0.5	1.1	85.7	257	Under way using engine	1	10.208.34.241.9040	3/17/2019 8:33	
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.6592	-12304.8887	0.5	1.1	75.6	257	Under way using engine	1	10.208.34.241.9040	3/17/2019 8:33	
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.6602	-12304.8877	0.5	2.2	62	258	Under way using engine	1	10.208.34.241.9040	3/17/2019 8:34	
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.6606	-12304.8838	0.5	0	57.2	258	Under way using engine	1	10.208.34.241.9040	3/17/2019 8:34	
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.6602	-12304.8818	0.5	2.2	56.8	258	Under way using engine	1	10.208.34.241.9040	3/17/2019 8:34	
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.6606	-12304.8799	0.5	0	56.1	258	Under way using engine	1	10.208.34.241.9040	3/17/2019 8:34	
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.6611	-12304.8789	0.5	0.5	53	258	Under way using engine	1	10.208.34.241.9040	3/17/2019 8:34	
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.6611	-12304.877	0.5	1.1	53.3	258	Under way using engine	1	10.208.34.241.9040	3/17/2019 8:34	
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.6606	-12304.873	0.5	0	72.8	258	Under way using engine	1	10.208.34.241.9040	3/17/2019 8:35	
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY	CA VAN	4917.6606	-12304.8711	0.5	1.1	70.6	258	At anchor	3	10.208.34.241.9040	3/17/2019 8:35	
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.6599	-12304.7979	0.1	2.2	303.7	252	At anchor	3	10.208.34.241.9040	3/17/2019 8:47	
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.6846	-12304.7861	0.1	0	353.8	255	At anchor	3	10.208.34.241.9040	3/17/2019 8:44	
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.6787	-12304.7993	0.3	0	71.2	255	At anchor	3	10.208.34.241.9040	3/17/2019 8:41	
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.6787	-12304.7993	0.3	0	71.2	255	At anchor	3	10.208.34.241.9040	3/17/2019 8:41	
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.6846	-12304.7861	0.1	0	353.8	255	At anchor	3	10.208.34.241.9040	3/17/2019 8:44	
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.6909	-12304.779	0.2	3.6	296.6	241	At anchor	5	10.208.34.241.9040	3/17/2019 8:50	
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY	CA VAN	4917.6953	-12304.8164	0.3	0	0	252	At anchor	5	10.208.34.241.9040	3/17/2019 8:50	
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.6929	-12304.832	0.2	2.9	218.1	226	At anchor	5	10.208.34.241.9040	3/17/2019 8:56	
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.6777	-12304.8301	0.3	5.4	159.7	229	At anchor	5	10.208.34.241.9040	3/17/2019 8:59	
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.6592	-12304.8252	0.1	2.9	202.5	242	At anchor	3	10.208.34.241.9040	3/17/2019 9:02	
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.6558	-12304.833	0.1	1.1	283.8	245	At anchor	3	10.208.34.241.9040	3/17/2019 9:05	
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.6523	-12304.8369	0.1	0	175.5	241	At anchor	5	10.208.34.241.9040	3/17/2019 9:08	
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY	CA VAN	4917.6426	-12304.832	0.1	3.6	143.7	251	At anchor	5	10.208.34.241.9040	3/17/2019 9:11	
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.6406	-12304.8311	0.2	2.9	0.4	261	At anchor	5	10.208.34.241.9040	3/17/2019 9:14	
Unknown	CA	Cargo ship No additional information	538004825	538004825	5955589	V7ZH2	CARAVOS HARMONY		4917.6494	-12304.8291	0.4	0	359.9	264	At anchor	3	10.208.34.241.9040	3/17/2019 9:17	

ATON type	Class	Type of ship	MMSI	IMO number	Call sign	Name	Destination	Latitude (DDMM.mmmn)	Longitude (DDMM.mmmn)	SOG (knts)	ROT (deg/min)	COG (deg)	True heading	Navigational status	Msg type	Port	Date time stamp
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY	CA VAN							Unknown	5	10208.34.241-9040	3/17/2019 9:17
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4917.6685	-12304.8301	0.5	-3.6	354.2	259	At anchor	3	10208.34.241-9040	3/17/2019 9:20
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY	CA VAN	4917.6826	-12304.8311	0.3	-3.6	355.8	245	At anchor	3	10208.34.241-9040	3/17/2019 9:23
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY								Unknown	5	10208.34.241-9040	3/17/2019 9:23
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4917.6899	-12304.832	0.1	-2.9	15.3	232	At anchor	3	10208.34.241-9040	3/17/2019 9:26
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4917.6875	-12304.8223	0.3	-1.1	135.4	226	At anchor	3	10208.34.241-9040	3/17/2019 9:29
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY	CA VAN							Unknown	5	10208.34.241-9040	3/17/2019 9:29
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4917.6738	-12304.8008	0.3	-6.4	150.4	239	At anchor	3	10208.34.241-9040	3/17/2019 9:32
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4917.6597	-12304.792	0.2	-3.6	163	251	At anchor	3	10208.34.241-9040	3/17/2019 9:35
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY	CA VAN							Unknown	5	10208.34.241-9040	3/17/2019 9:35
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4917.6484	-12304.7871	0	-1.1	194.8	258	At anchor	3	10208.34.241-9040	3/17/2019 9:38
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4917.6543	-12304.7959	0.1	0	337.4	260	At anchor	3	10208.34.241-9040	3/17/2019 9:41
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4917.6577	-12304.7861	0.1	-2.2	7.5	259	At anchor	3	10208.34.241-9040	3/17/2019 9:44
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4917.6646	-12304.7939	0.2	-1.1	343.2	256	At anchor	3	10208.34.241-9040	3/17/2019 9:47
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY	CA VAN							Unknown	5	10208.34.241-9040	3/17/2019 9:47
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4917.6733	-12304.792	0.2	-1.1	338.2	251	At anchor	3	10208.34.241-9040	3/17/2019 9:50
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4917.6572	-12304.7881	0.1	-2.2	315.8	248	At anchor	3	10208.34.241-9040	3/17/2019 9:53
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY	CA VAN							Unknown	5	10208.34.241-9040	3/17/2019 9:53
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4917.6802	-12304.793	0.1	0	319.3	245	At anchor	3	10208.34.241-9040	3/17/2019 9:56
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY		4917.6831	-12304.7969	0.1	-2.2	301.6	243	At anchor	3	10208.34.241-9040	3/17/2019 9:59
Unknown	CA	Cargo ship No additional information	538004825	9595589	V7ZH2	CARAVOS HARMONY	CA VAN							Unknown	5	10208.34.241-9040	3/17/2019 9:59

ATON type	Class	Type of ship	MMSI	IMO number	Call sign	Name	Destination	Latitude (DDMM.mmm)	Longitude (DDMM.mmm)	SOG (knts)	ROT (deg/min)	COG (deg)	True heading	Navigational status	Msg type	Port	Date time stamp
Unknown	CA	Cargo ship	352200000	9510515	3FUG9	PAN ACACIA	RBK,CA							Unknown		5 10.208.34.241:9040	3/17/2019 6:30
Unknown	CA	Cargo ship	352200000	9510515	3FUG9	PAN ACACIA		4918.1709	-12305.5947	0.3	0	24	116	At anchor		3 10.208.34.241:9040	3/17/2019 6:31
Unknown	CA	Cargo ship	352200000	9510515	3FUG9	PAN ACACIA	RBK,CA							Unknown		5 10.208.34.241:9040	3/17/2019 6:32
Unknown	CA	Cargo ship	352200000	9510515	3FUG9	PAN ACACIA	RBK,CA							Unknown		5 10.208.34.241:9040	3/17/2019 6:33
Unknown	CA	Cargo ship	352200000	9510515	3FUG9	PAN ACACIA	RBK,CA							Unknown		5 10.208.34.241:9040	3/17/2019 6:34
Unknown	CA	Cargo ship	352200000	9510515	3FUG9	PAN ACACIA		4918.1792	-12305.5869	0.2	0	27.7	121	At anchor		3 10.208.34.241:9040	3/17/2019 6:34
Unknown	CA	Cargo ship	352200000	9510515	3FUG9	PAN ACACIA	RBK,CA							Unknown		5 10.208.34.241:9040	3/17/2019 6:36
Unknown	CA	Cargo ship	352200000	9510515	3FUG9	PAN ACACIA		4918.1895	-12305.5791	0.3	0	27.7	125	At anchor		3 10.208.34.241:9040	3/17/2019 6:37
Unknown	CA	Cargo ship	352200000	9510515	3FUG9	PAN ACACIA	RBK,CA							Unknown		5 10.208.34.241:9040	3/17/2019 6:40
Unknown	CA	Cargo ship	352200000	9510515	3FUG9	PAN ACACIA		4918.1982	-12305.5703	0.5	0	29.9	129	At anchor		3 10.208.34.241:9040	3/17/2019 6:43
Unknown	CA	Cargo ship	352200000	9510515	3FUG9	PAN ACACIA		4918.2012	-12305.5664	0.1	0	12.1	130	At anchor		3 10.208.34.241:9040	3/17/2019 6:43
Unknown	CA	Cargo ship	352200000	9510515	3FUG9	PAN ACACIA	RBK,CA							Unknown		5 10.208.34.241:9040	3/17/2019 6:46
Unknown	CA	Cargo ship	352200000	9510515	3FUG9	PAN ACACIA		4918.2046	-12305.5664	0.1	0	348.7	131	At anchor		3 10.208.34.241:9040	3/17/2019 6:46
Unknown	CA	Cargo ship	352200000	9510515	3FUG9	PAN ACACIA		4918.207	-12305.5674	0.1	0	332.1	132	At anchor		3 10.208.34.241:9040	3/17/2019 6:49
Unknown	CA	Cargo ship	352200000	9510515	3FUG9	PAN ACACIA	RBK,CA							Unknown		5 10.208.34.241:9040	3/17/2019 6:52
Unknown	CA	Cargo ship	352200000	9510515	3FUG9	PAN ACACIA		4918.2095	-12305.5693	0.1	0	319.6	133	At anchor		3 10.208.34.241:9040	3/17/2019 6:52
Unknown	CA	Cargo ship	352200000	9510515	3FUG9	PAN ACACIA		4918.2104	-12305.5723	0.1	0	300.3	133	At anchor		3 10.208.34.241:9040	3/17/2019 6:55
Unknown	CA	Cargo ship	352200000	9510515	3FUG9	PAN ACACIA	RBK,CA							Unknown		5 10.208.34.241:9040	3/17/2019 6:58
Unknown	CA	Cargo ship	352200000	9510515	3FUG9	PAN ACACIA		4918.2095	-12305.5801	0.1	0	274.8	131	At anchor		3 10.208.34.241:9040	3/17/2019 6:58
Unknown	CA	Cargo ship	352200000	9510515	3FUG9	PAN ACACIA		4918.2095	-12305.5869	0.1	0	255.7	130	At anchor		3 10.208.34.241:9040	3/17/2019 7:01
Unknown	CA	Cargo ship	352200000	9510515	3FUG9	PAN ACACIA	RBK,CA							Unknown		5 10.208.34.241:9040	3/17/2019 7:04
Unknown	CA	Cargo ship	352200000	9510515	3FUG9	PAN ACACIA		4918.2065	-12305.5947	0.1	0	236	129	At anchor		3 10.208.34.241:9040	3/17/2019 7:04
Unknown	CA	Cargo ship	352200000	9510515	3FUG9	PAN ACACIA		4918.2007	-12305.5967	0.1	0	228.1	127	At anchor		3 10.208.34.241:9040	3/17/2019 7:07
Unknown	CA	Cargo ship	352200000	9510515	3FUG9	PAN ACACIA	RBK,CA							Unknown		5 10.208.34.241:9040	3/17/2019 7:10
Unknown	CA	Cargo ship	352200000	9510515	3FUG9	PAN ACACIA		4918.1992	-12305.5947	0	0	220.3	125	At anchor		3 10.208.34.241:9040	3/17/2019 7:13
Unknown	CA	Cargo ship	352200000	9510515	3FUG9	PAN ACACIA		4918.1958	-12305.5938	0	0	220.3	123	At anchor		3 10.208.34.241:9040	3/17/2019 7:16
Unknown	CA	Cargo ship	352200000	9510515	3FUG9	PAN ACACIA	RBK,CA							Unknown		5 10.208.34.241:9040	3/17/2019 7:16
Unknown	CA	Cargo ship	352200000	9510515	3FUG9	PAN ACACIA		4918.1934	-12305.5928	0	0	197.5	122	At anchor		3 10.208.34.241:9040	3/17/2019 7:16
Unknown	CA	Cargo ship	352200000	9510515	3FUG9	PAN ACACIA		4918.1938	-12305.5898	0.3	-720	80.6	117	At anchor		3 10.208.34.241:9040	3/17/2019 7:19
Unknown	CA	Cargo ship	352200000	9510515	3FUG9	PAN ACACIA	RBK,CA							Unknown		5 10.208.34.241:9040	3/17/2019 7:22
Unknown	CA	Cargo ship	352200000	9510515	3FUG9	PAN ACACIA		4918.2046	-12305.5381	0.7	0	40.9	110	At anchor		3 10.208.34.241:9040	3/17/2019 7:22
Unknown	CA	Cargo ship	352200000	9510515	3FUG9	PAN ACACIA		4918.2266	-12305.5117	0.3	0	63.1	132	At anchor		3 10.208.34.241:9040	3/17/2019 7:25
Unknown	CA	Cargo ship	352200000	9510515	3FUG9	PAN ACACIA	RBK,CA							Unknown		5 10.208.34.241:9040	3/17/2019 7:28
Unknown	CA	Cargo ship	352200000	9510515	3FUG9	PAN ACACIA		4918.2256	-12305.5029	0.1	0	359.1	139	At anchor		3 10.208.34.241:9040	3/17/2019 7:28
Unknown	CA	Cargo ship	352200000	9510515	3FUG9	PAN ACACIA		4918.2236	-12305.5156	0.2	0	274.2	134	At anchor		3 10.208.34.241:9040	3/17/2019 7:31
Unknown	CA	Cargo ship	352200000	9510515	3FUG9	PAN ACACIA	RBK,CA							Unknown		5 10.208.34.241:9040	3/17/2019 7:34
Unknown	CA	Cargo ship	352200000	9510515	3FUG9	PAN ACACIA		4918.2217	-12305.5371	0.3	0	272.3	125	At anchor		3 10.208.34.241:9040	3/17/2019 7:34
Unknown	CA	Cargo ship	352200000	9510515	3FUG9	PAN ACACIA		4918.2197	-12305.5605	0.3	0	283.3	120	At anchor		3 10.208.34.241:9040	3/17/2019 7:37
Unknown	CA	Cargo ship	352200000	9510515	3FUG9	PAN ACACIA	RBK,CA							Unknown		5 10.208.34.241:9040	3/17/2019 7:40
Unknown	CA	Cargo ship	352200000	9510515	3FUG9	PAN ACACIA		4918.2227	-12305.583	0.3	0	281.2	118	At anchor		3 10.208.34.241:9040	3/17/2019 7:40
Unknown	CA	Cargo ship	352200000	9510515	3FUG9	PAN ACACIA		4918.2256	-12305.5996	0.2	0	305.5	119	At anchor		3 10.208.34.241:9040	3/17/2019 7:46
Unknown	CA	Cargo ship	352200000	9510515	3FUG9	PAN ACACIA	RBK,CA							Unknown		5 10.208.34.241:9040	3/17/2019 7:46
Unknown	CA	Cargo ship	352200000	9510515	3FUG9	PAN ACACIA		4918.2241	-12305.6074	0	0	352.4	122	At anchor		3 10.208.34.241:9040	3/17/2019 7:49
Unknown	CA	Cargo ship	352200000	9510515	3FUG9	PAN ACACIA	RBK,CA							Unknown		5 10.208.34.241:9040	3/17/2019 7:52

ATON type	Class	Type of ship	MMSI	IMO number	Call sign	Name	Destination	Latitude (DDMM.mmmmm)	Longitude (DDMM.mmmmm)	SOG (knts)	ROT (deg/min)	COG (deg)	True heading	Navigation status	Msg type	Port	Date time stamp
Unknown	CA	Cargo ship	352200000	9510515	3FU69	PAN ACACIA	4918.2212	-12305.6045	0	0.1	0	167.5	121	At anchor	3	10.08.34.241.9040	3/17/2019 7:52
Unknown	CA	Cargo ship	352200000	9510515	3FU69	PAN ACACIA	4918.2129	-12305.6016	0	0.1	0	196	118	At anchor	3	10.08.34.241.9040	3/17/2019 7:55
Unknown	CA	Cargo ship	352200000	9510515	3FU69	PAN ACACIA	4918.2031	-12305.6094	0	0.2	0	221.5	113	At anchor	3	10.08.34.241.9040	3/17/2019 7:58
Unknown	CA	Cargo ship	352200000	9510515	3FU69	PAN ACACIA	4918.1948	-12305.6211	0	0.1	0	225.9	108	At anchor	3	10.08.34.241.9040	3/17/2019 8:01
Unknown	CA	Cargo ship	352200000	9510515	3FU69	PAN ACACIA	4918.1875	-12305.627	0	0	0	238.8	103	At anchor	3	10.08.34.241.9040	3/17/2019 8:04
Unknown	CA	Cargo ship	352200000	9510515	3FU69	PAN ACACIA	4918.188	-12305.623	0	0.1	0	37.8	103	At anchor	3	10.08.34.241.9040	3/17/2019 8:07
Unknown	CA	Cargo ship	352200000	9510515	3FU69	PAN ACACIA	4918.1802	-12305.6162	0	0.1	0	98.4	103	At anchor	3	10.08.34.241.9040	3/17/2019 8:10
Unknown	CA	Cargo ship	352200000	9510515	3FU69	PAN ACACIA	4918.1748	-12305.6211	0	0.1	0	265.3	98	At anchor	3	10.08.34.241.9040	3/17/2019 8:16
Unknown	CA	Cargo ship	352200000	9510515	3FU69	PAN ACACIA	4918.1689	-12305.626	0	0.1	0	227.9	95	At anchor	3	10.08.34.241.9040	3/17/2019 8:19
Unknown	CA	Cargo ship	352200000	9510515	3FU69	PAN ACACIA	4918.1641	-12305.6328	0	0.1	0	192.1	95	At anchor	3	10.08.34.241.9040	3/17/2019 8:22
Unknown	CA	Cargo ship	352200000	9510515	3FU69	PAN ACACIA	4918.1548	-12305.6328	0	0.4	0	156	95	At anchor	3	10.08.34.241.9040	3/17/2019 8:25
Unknown	CA	Cargo ship	352200000	9510515	3FU69	PAN ACACIA	4918.147	-12305.6279	0	0.1	0	159.8	92	At anchor	3	10.08.34.241.9040	3/17/2019 8:28
Unknown	CA	Cargo ship	352200000	9510515	3FU69	PAN ACACIA	4918.1367	-12305.627	0	0.1	0	170.2	86	At anchor	3	10.08.34.241.9040	3/17/2019 8:31
Unknown	CA	Cargo ship	352200000	9510515	3FU69	PAN ACACIA	4918.124	-12305.624	0	0.1	0	169.4	79	At anchor	3	10.08.34.241.9040	3/17/2019 8:34
Unknown	CA	Cargo ship	352200000	9510515	3FU69	PAN ACACIA	4918.1196	-12305.624	0	0.1	0	11.4	76	At anchor	3	10.08.34.241.9040	3/17/2019 8:37
Unknown	CA	Cargo ship	352200000	9510515	3FU69	PAN ACACIA	4918.1294	-12305.623	0	0.1	0	39.9	79	At anchor	3	10.08.34.241.9040	3/17/2019 8:40
Unknown	CA	Cargo ship	352200000	9510515	3FU69	PAN ACACIA	4918.1372	-12305.6211	0	0.1	0	77.6	80	At anchor	3	10.08.34.241.9040	3/17/2019 8:43
Unknown	CA	Cargo ship	352200000	9510515	3FU69	PAN ACACIA	4918.1401	-12305.6211	0	0.1	0	124	78	At anchor	3	10.08.34.241.9040	3/17/2019 8:46
Unknown	CA	Cargo ship	352200000	9510515	3FU69	PAN ACACIA	4918.1221	-12305.6084	0	0.2	0	151	72	At anchor	3	10.08.34.241.9040	3/17/2019 8:49
Unknown	CA	Cargo ship	352200000	9510515	3FU69	PAN ACACIA	4918.1118	-12305.6134	0	0.1	0	306.8	70	At anchor	3	10.08.34.241.9040	3/17/2019 8:52
Unknown	CA	Cargo ship	352200000	9510515	3FU69	PAN ACACIA	4918.1094	-12305.6173	0	0.2	0	316.4	69	At anchor	3	10.08.34.241.9040	3/17/2019 8:55

ATON type	Class	Type of ship	MMSI	IMO number	Call sign	Name	Destination	Latitude (DDMM.mmmmm)	Longitude (DDMM.mmmmm)	SOG (knts)	ROT (deg/min)	COG (deg)	True heading	Navigational status	Msg type	Port	Date time stamp
Unknown	CA	Cargo ship	352200000	9510515	3FUG9	PAN ACACIA		4918.1001	-12305.6094	0	0	138.3	68	At anchor		3 10.208.34.241:9040	3/17/2019 9:16
Unknown	CA	Cargo ship	352200000	9510515	3FUG9	PAN ACACIA		4918.0986	-12305.6084	0.1	0	4.7	68	At anchor		3 10.208.34.241:9040	3/17/2019 9:19
Unknown	CA	Cargo ship	352200000	9510515	3FUG9	PAN ACACIA	RBK,CA							Unknown		5 10.208.34.241:9040	3/17/2019 9:22
Unknown	CA	Cargo ship	352200000	9510515	3FUG9	PAN ACACIA		4918.0996	-12305.6074	0.1	0	13.3	69	At anchor		3 10.208.34.241:9040	3/17/2019 9:22
Unknown	CA	Cargo ship	352200000	9510515	3FUG9	PAN ACACIA		4918.1006	-12305.6045	0.1	0	18.5	70	At anchor		3 10.208.34.241:9040	3/17/2019 9:25
Unknown	CA	Cargo ship	352200000	9510515	3FUG9	PAN ACACIA	RBK,CA							Unknown		5 10.208.34.241:9040	3/17/2019 9:28
Unknown	CA	Cargo ship	352200000	9510515	3FUG9	PAN ACACIA		4918.1006	-12305.6025	0.1	0	8.2	71	At anchor		3 10.208.34.241:9040	3/17/2019 9:28
Unknown	CA	Cargo ship	352200000	9510515	3FUG9	PAN ACACIA		4918.1025	-12305.6035	0.1	0	5.5	74	At anchor		3 10.208.34.241:9040	3/17/2019 9:31
Unknown	CA	Cargo ship	352200000	9510515	3FUG9	PAN ACACIA	RBK,CA							Unknown		5 10.208.34.241:9040	3/17/2019 9:34
Unknown	CA	Cargo ship	352200000	9510515	3FUG9	PAN ACACIA		4918.1074	-12305.6035	0.2	0	350.2	78	At anchor		3 10.208.34.241:9040	3/17/2019 9:34
Unknown	CA	Cargo ship	352200000	9510515	3FUG9	PAN ACACIA		4918.1152	-12305.6045	0.2	0	338.8	80	At anchor		3 10.208.34.241:9040	3/17/2019 9:37
Unknown	CA	Cargo ship	352200000	9510515	3FUG9	PAN ACACIA	RBK,CA							Unknown		5 10.208.34.241:9040	3/17/2019 9:40
Unknown	CA	Cargo ship	352200000	9510515	3FUG9	PAN ACACIA		4918.1221	-12305.6104	0.2	0	312	81	At anchor		3 10.208.34.241:9040	3/17/2019 9:40
Unknown	CA	Cargo ship	352200000	9510515	3FUG9	PAN ACACIA		4918.1226	-12305.6172	0.1	0	297.2	81	At anchor		3 10.208.34.241:9040	3/17/2019 9:43
Unknown	CA	Cargo ship	352200000	9510515	3FUG9	PAN ACACIA	RBK,CA							Unknown		5 10.208.34.241:9040	3/17/2019 9:46
Unknown	CA	Cargo ship	352200000	9510515	3FUG9	PAN ACACIA		4918.1226	-12305.623	0.1	0	278.8	79	At anchor		3 10.208.34.241:9040	3/17/2019 9:46
Unknown	CA	Cargo ship	352200000	9510515	3FUG9	PAN ACACIA		4918.1226	-12305.6299	0.1	0	332.2	79	At anchor		3 10.208.34.241:9040	3/17/2019 9:49
Unknown	CA	Cargo ship	352200000	9510515	3FUG9	PAN ACACIA	RBK,CA							Unknown		5 10.208.34.241:9040	3/17/2019 9:52
Unknown	CA	Cargo ship	352200000	9510515	3FUG9	PAN ACACIA		4918.126	-12305.627	0.1	0	16.9	82	At anchor		3 10.208.34.241:9040	3/17/2019 9:52
Unknown	CA	Cargo ship	352200000	9510515	3FUG9	PAN ACACIA		4918.125	-12305.6191	0.1	0	87.5	83	At anchor		3 10.208.34.241:9040	3/17/2019 9:55
Unknown	CA	Cargo ship	352200000	9510515	3FUG9	PAN ACACIA	RBK,CA							Unknown		5 10.208.34.241:9040	3/17/2019 9:58
Unknown	CA	Cargo ship	352200000	9510515	3FUG9	PAN ACACIA		4918.1177	-12305.6104	0.1	0	145.5	81	At anchor		3 10.208.34.241:9040	3/17/2019 9:58

ATON type	Class	Type of ship	IMO	MMSI	Call sign	Name	Destination	Latitude (DDMM.mmmmm)	Longitude (DDDDMM.mmmmm)	SOG (knts)	ROT (deg/min)	COG (deg)	True heading	Navigational status	Msg type	Port	Date time stamp
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1504	0	0	224	93	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:30
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1504	0	0	309	92	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:30
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5962	-12306.1445	0.1	0	177	92	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:30
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1504	0.1	0	302	92	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:30
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1504	0.1	0	17	92	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:30
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1504	0	0	237	92	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:30
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1504	0	0	81	92	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:31
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1504	0.1	0	280	92	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:31
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5962	-12306.1455	0	0	58	91	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:31
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1504	0	0	249	91	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:31
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1504	0.1	0	263	91	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:31
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1504	0.1	0	220	92	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:31
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1504	0	0	325	92	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:32
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1504	0	0	209	92	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:32
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5962	-12306.1455	0.1	0	242	92	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:32
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1504	0.1	0	279	92	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:32
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1504	0.1	0	202	92	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:32
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1396	0	0	278	92	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:32
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1396	0.1	0	315	91	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:33
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1396	0.1	0	240	92	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:33
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1396	0.1	0	181	92	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:33
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1396	0.1	0	348	93	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:33
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1396	0.1	0	214	93	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:33
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5981	-12306.1436	0.1	0	246	93	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:33
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1396	0	0	233	93	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:34
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1396	0	0	16	93	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:34
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5967	-12306.1445	0	0	109	93	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:34
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1396	0	0	196	92	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:34
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1396	0.1	0	89	92	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:34
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5967	-12306.1445	0.1	0	174	92	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:34
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1504	0.1	0	189	92	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:35
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1504	0	0	38	92	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:35
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5962	-12306.1455	0.1	0	198	92	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:35
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1504	0.1	0	247	92	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:35
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	VANCOUVER	4918.6001	-12306.1504	0	0	88	92	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:35
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1504	0.1	0	340	91	Unknown	5	10.208.34.241.9040	3/17/2019 6:35
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1504	0	0	12	91	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:36
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1504	0.1	0	66	91	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:36
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5962	-12306.1455	0.1	0	215	91	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:36
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1504	0	0	339	91	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:36
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1504	0	0	275	91	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:36
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1504	0.1	0	56	92	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:36
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1504	0	0	6	91	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:37
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1504	0.1	0	180	91	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:37

ATON type	Class	Type of ship	IMO	MMSI	Call sign	Name	Destination	Latitude (DDMM.mmmmm)	Longitude (DDMM.mmmmm)	SOG (knts)	ROT (deg/min)	COG (deg)	True heading	Navigational status	Msg type	Date time stamp
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5967	-12306.1455	0	0	137	91	Under way using engine	Port	3/17/2019 6:37
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1504	0	0	2	91	Under way using engine		3/17/2019 6:37
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5972	-12306.1445	0.1	0.1	11	91	Under way using engine		3/17/2019 6:37
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1504	0	0	355	91	Under way using engine		3/17/2019 6:37
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1504	0	0	217	91	Under way using engine		3/17/2019 6:38
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1504	0	0	118	91	Under way using engine		3/17/2019 6:38
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1504	0	0	269	92	Under way using engine		3/17/2019 6:38
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1504	0.1	0.1	209	92	Under way using engine		3/17/2019 6:38
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5962	-12306.1455	0.1	0.1	81	92	Under way using engine		3/17/2019 6:38
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5962	-12306.1455	0.1	0.1	198	92	Under way using engine		3/17/2019 6:39
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1504	0	0	147	92	Under way using engine		3/17/2019 6:39
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5967	-12306.1445	0.1	0.1	123	92	Under way using engine		3/17/2019 6:39
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1396	0.2	0.2	33	93	Under way using engine		3/17/2019 6:39
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1396	0.1	0.1	102	93	Under way using engine		3/17/2019 6:39
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1396	0	0	249	93	Under way using engine		3/17/2019 6:39
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1396	0.2	0.2	220	92	Under way using engine		3/17/2019 6:40
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1396	0	0	130	92	Under way using engine		3/17/2019 6:40
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1396	0.1	0.1	146	92	Under way using engine		3/17/2019 6:40
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1396	0	0	84	92	Under way using engine		3/17/2019 6:40
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5972	-12306.1445	0.1	0.1	22	92	Under way using engine		3/17/2019 6:40
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1396	0.1	0.1	13	92	Under way using engine		3/17/2019 6:41
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1396	0	0	217	92	Under way using engine		3/17/2019 6:41
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5977	-12306.1436	0.1	0.1	157	92	Under way using engine		3/17/2019 6:41
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1396	0.1	0.1	26	92	Under way using engine		3/17/2019 6:41
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1396	0.1	0.1	20	92	Under way using engine		3/17/2019 6:41
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5977	-12306.1436	0.1	0.1	51	92	Under way using engine	Unknown	3/17/2019 6:41
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1396	0	0	224	92	Under way using engine		3/17/2019 6:42
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1396	0	0	100	92	Under way using engine		3/17/2019 6:42
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1396	0.1	0.1	14	91	Under way using engine		3/17/2019 6:42
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1396	0	0	203	91	Under way using engine		3/17/2019 6:42
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1396	0	0	72	92	Under way using engine		3/17/2019 6:42
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5977	-12306.1436	0.1	0.1	174	92	Under way using engine		3/17/2019 6:42
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1436	0.1	0.1	32	92	Under way using engine		3/17/2019 6:43
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5981	-12306.1436	0.1	0.1	32	92	Under way using engine		3/17/2019 6:43
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1396	0.1	0.1	0	92	Under way using engine		3/17/2019 6:43
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1396	0.1	0.1	242	92	Under way using engine		3/17/2019 6:43
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1396	0	0	199	92	Under way using engine		3/17/2019 6:43
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1396	0.1	0.1	231	92	Under way using engine		3/17/2019 6:43
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1504	0	0	32	92	Under way using engine		3/17/2019 6:44
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5967	-12306.1455	0	0	173	91	Under way using engine		3/17/2019 6:44
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1504	0	0	184	92	Under way using engine		3/17/2019 6:44

ATON type	Class	Type of ship	IMO	MMSI	Call sign	Name	Destination	Latitude (DDMM.mmmmm)	Longitude (DDMM.mmmmm)	SOG (knts)	ROT (deg/min)	COG (deg)	True heading	Navigational status	Msg type	Port	Date time stamp
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1504	0	0	258	91	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:44
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5967	-12306.1455	0	0	17	91	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:44
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1455	0	0	302	91	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:45
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5972	-12306.1445	0	0	107	91	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:45
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1396	0	0	64	91	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:45
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1396	0.1	0	129	91	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:45
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1504	0.1	0	240	91	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:45
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5967	-12306.1455	0.1	0	15	90	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:45
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1504	0	0	21	90	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:46
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1504	0	0	64	90	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:46
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1504	0.1	0	176	91	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:46
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1396	0.1	0	144	91	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:46
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1396	0.1	0	106	91	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:46
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1396	0.1	0	230	92	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:46
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1396	0	0	270	93	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:47
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5986	-12306.1436	0	0	243	93	Under way using engine	3	10.208.34.241.9040	3/17/2019 6:47
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1396	0	0	353	93	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:47
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1396	0.1	0	257	93	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:47
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1396	0.1	0	273	93	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:47
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	VANCOUVER						Unknown		5	10.208.34.241.9040	3/17/2019 6:47
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1396	0.1	0	35	93	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:47
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1396	0	0	302	92	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:48
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5986	-12306.1436	0.1	0	287	92	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:48
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1396	0	0	184	92	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:48
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1396	0.1	0	15	92	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:48
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1396	0.1	0	301	92	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:48
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1396	0.1	0	262	92	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:48
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1396	0	0	128	92	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:49
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5981	-12306.1436	0.1	0	156	92	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:49
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1396	0.1	0	133	92	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:49
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1396	0	0	96	92	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:49
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1396	0.1	0	145	92	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:49
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1396	0.1	0	11	92	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:49
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1396	0.1	0	152	92	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:50
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1396	0	0	4	92	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:50
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1396	0.1	0	175	92	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:50
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1396	0.1	0	223	93	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:50
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1396	0.1	0	311	93	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:50
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1396	0.1	0	193	93	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:51
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1396	0.1	0	274	92	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:51
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1396	0.1	0	158	92	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:51
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1396	0	0	158	92	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:51
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5972	-12306.1436	0.1	0	215	92	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:51
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1396	0.1	0	32	92	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:51
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.6001	-12306.1396	0.1	0	29	92	Under way using engine	1	10.208.34.241.9040	3/17/2019 6:51



ATON type	Class	Type of ship	IMO	MMSI	Call sign	Name	Destination	Latitude (DDMM.mmmm)	Longitude (DDMM.mmmm)	SOG (knts)	ROT (deg/min)	COG (deg)	True heading	Navigational status	Msg type	Date time stamp
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4918.6001	-12306.1396	0	0	111	92	Under way using engine	Port	3/17/2019 6:52
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4918.6001	-12306.1396	0	0	236	92	Under way using engine		3/17/2019 6:52
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4918.6001	-12306.1396	0	0	344	92	Under way using engine		3/17/2019 6:52
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4918.5977	-12306.1436	0.1	0	337	92	Under way using engine		3/17/2019 6:52
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4918.6001	-12306.1396	0.1	0	152	91	Under way using engine		3/17/2019 6:52
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4918.6001	-12306.1396	0.1	0	209	91	Under way using engine		3/17/2019 6:52
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4918.6001	-12306.1396	0.1	0	253	91	Under way using engine		3/17/2019 6:53
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4918.6001	-12306.1396	0.1	0	92	91	Under way using engine		3/17/2019 6:53
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4918.6001	-12306.1396	0	0	35	91	Under way using engine		3/17/2019 6:53
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4918.6001	-12306.1396	0.1	0	7	91	Under way using engine		3/17/2019 6:53
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN	VANCOUVER	4918.6001	-12306.1396	0	0	124	91	Unknown		3/17/2019 6:53
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4918.6001	-12306.1396	0	0	60	90	Under way using engine		3/17/2019 6:54
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4918.6001	-12306.1396	0	0	332	90	Under way using engine		3/17/2019 6:54
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4918.6001	-12306.1396	0	0	108	90	Under way using engine		3/17/2019 6:54
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4918.6001	-12306.1396	0.1	0	72	91	Under way using engine		3/17/2019 6:54
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4918.6001	-12306.1396	0.1	0	179	91	Under way using engine		3/17/2019 6:54
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4918.6001	-12306.1396	0.1	0	329	91	Under way using engine		3/17/2019 6:54
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4918.6001	-12306.1396	0.3	0	192	91	Under way using engine		3/17/2019 6:55
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4918.6001	-12306.1396	0	0	308	91	Under way using engine		3/17/2019 6:55
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4918.6001	-12306.1396	0	0	44	91	Under way using engine		3/17/2019 6:55
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4918.5972	-12306.1436	0.1	0	172	91	Under way using engine		3/17/2019 6:55
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4918.6001	-12306.1396	0	0	43	91	Under way using engine		3/17/2019 6:55
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4918.6001	-12306.1396	0.1	0	214	91	Under way using engine		3/17/2019 6:55
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4918.6001	-12306.1396	0.1	0	72	91	Under way using engine		3/17/2019 6:55
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4918.6001	-12306.1396	0.1	0	179	91	Under way using engine		3/17/2019 6:55
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4918.6001	-12306.1396	0.1	0	329	91	Under way using engine		3/17/2019 6:55
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4918.6001	-12306.1396	0.3	0	52	91	Under way using engine		3/17/2019 6:56
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4918.6001	-12306.1396	0	0	279	91	Under way using engine		3/17/2019 6:56
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4918.6001	-12306.1396	0	0	204	91	Under way using engine		3/17/2019 6:56
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4918.6001	-12306.1396	0	0	305	91	Under way using engine		3/17/2019 6:56
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4918.6001	-12306.1396	0	0	317	91	Under way using engine		3/17/2019 6:57
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4918.6001	-12306.1396	0.1	0	55	91	Under way using engine		3/17/2019 6:57
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4918.5957	-12306.1455	0	0	309	91	Under way using engine		3/17/2019 6:57
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4918.6001	-12306.1455	0.1	0	219	91	Under way using engine		3/17/2019 6:57
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4918.6001	-12306.1504	0	0	353	91	Under way using engine		3/17/2019 6:57
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4918.6001	-12306.1504	0.1	0	113	91	Under way using engine		3/17/2019 6:57
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4918.6001	-12306.1504	0.1	0	163	92	Under way using engine		3/17/2019 6:58
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4918.6001	-12306.1504	0.1	0	255	92	Under way using engine		3/17/2019 6:58
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4918.6001	-12306.1504	0.1	0	189	91	Under way using engine		3/17/2019 6:58
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4918.6001	-12306.1504	0.1	0	95	91	Under way using engine		3/17/2019 6:58
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4918.5972	-12306.1445	0.1	0	307	90	Under way using engine		3/17/2019 6:58
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4918.6001	-12306.1396	0	0	214	91	Under way using engine		3/17/2019 6:58
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4918.6001	-12306.1396	0	0	10	91	Under way using engine		3/17/2019 6:59
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4918.6001	-12306.1396	0	0	23	91	Under way using engine		3/17/2019 6:59

ATON type	Class	Type of ship	IMO	MMSI	number	Call sign	Name	Destination	Latitude (DDMM.mmmm)	Longitude (DDMM.mmmm)	SOG (knts)	ROT (deg/min)	COG (deg)	True heading	Navigational status	Msg type	Date time stamp
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.6001	-12306.1396	0.2	0	347	91	Under way using engine	Port	3/17/2019 6:59
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.6001	-12306.1396	0.1	0	348	91	Under way using engine		3/17/2019 6:59
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.6001	-12306.1396	0.1	0	330	91	Under way using engine		3/17/2019 6:59
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.6001	-12306.1396	0.1	0	44	91	Unknown		3/17/2019 6:59
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.6001	-12306.1396	0.1	0	316	91	Under way using engine		3/17/2019 7:00
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.5977	-12306.1445	0	0	185	91	Under way using engine		3/17/2019 7:00
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.6001	-12306.1396	0.1	0	7	91	Under way using engine		3/17/2019 7:00
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.6001	-12306.1396	0.1	0	359	91	Under way using engine		3/17/2019 7:00
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.6001	-12306.1396	0.1	0	164	92	Under way using engine		3/17/2019 7:00
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.6001	-12306.1396	0.1	0	37	92	Under way using engine		3/17/2019 7:00
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.6001	-12306.1396	0.1	0	95	92	Under way using engine		3/17/2019 7:01
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.6001	-12306.1396	0.1	0	195	92	Under way using engine		3/17/2019 7:01
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.6001	-12306.1396	0.1	0	28	92	Under way using engine		3/17/2019 7:01
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.6001	-12306.1396	0.1	0	357	92	Under way using engine		3/17/2019 7:01
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.6001	-12306.1396	0.1	0	68	92	Under way using engine		3/17/2019 7:01
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.6001	-12306.1396	0.1	0	333	92	Under way using engine		3/17/2019 7:01
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.6001	-12306.1396	0.1	0	212	92	Under way using engine		3/17/2019 7:02
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.5967	-12306.1445	0.1	0	87	92	Under way using engine		3/17/2019 7:02
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.6001	-12306.1504	0.1	0	340	92	Under way using engine		3/17/2019 7:02
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.6001	-12306.1504	0.1	0	13	92	Under way using engine		3/17/2019 7:02
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.6001	-12306.1504	0.2	0	235	92	Under way using engine		3/17/2019 7:02
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.6001	-12306.1504	0.1	0	307	92	Under way using engine		3/17/2019 7:02
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.6001	-12306.1504	0.1	0	330	92	Under way using engine		3/17/2019 7:03
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.6001	-12306.1504	0.1	0	266	92	Under way using engine		3/17/2019 7:03
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.6001	-12306.1504	0.1	0	223	92	Under way using engine		3/17/2019 7:03
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.6001	-12306.1504	0.1	0	170	92	Under way using engine		3/17/2019 7:03
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.6001	-12306.1504	0.3	0	78	92	Under way using engine		3/17/2019 7:04
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.6001	-12306.1396	0.1	0	301	92	Under way using engine		3/17/2019 7:04
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.6001	-12306.1396	0.1	0	339	92	Under way using engine		3/17/2019 7:04
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.6001	-12306.1396	0.1	0	89	92	Under way using engine		3/17/2019 7:04
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.6001	-12306.1396	0.1	0	34	92	Under way using engine		3/17/2019 7:04
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.6001	-12306.1396	0.1	0	305	92	Under way using engine		3/17/2019 7:04
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.5986	-12306.1445	0.1	0	37	92	Under way using engine		3/17/2019 7:05
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.6001	-12306.1396	0.1	0	131	92	Under way using engine		3/17/2019 7:05
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.6001	-12306.1396	0.1	0	124	92	Under way using engine		3/17/2019 7:05
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.6001	-12306.1396	0.1	0	197	91	Unknown		3/17/2019 7:05
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.6001	-12306.1396	0	0	84	91	Under way using engine		3/17/2019 7:06
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.5977	-12306.1445	0	0	163	91	Under way using engine		3/17/2019 7:06
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.6001	-12306.1504	0	0	13	91	Under way using engine		3/17/2019 7:06

ATON type	Class	Type of ship	MMSI	IMO	number	Call sign	Name	Destination	Latitude (DDMM.mmmmm)	Longitude (DDMM.mmmmm)	SOG (knots)	ROT (deg)	COG (deg)	True heading	Navigation status	Mmsg type	Date time stamp
Unknown	CA	Tug	316018851	9432957	CN6643	SEASPAN RAYEN	4918.6001	-12306.1996	0	0.1	0	0	0	0	91	Under way using engine	3/17/2019 7:06
Unknown	CA	Tug	316018851	9432957	CN6643	SEASPAN RAYEN	4918.6001	-12306.1996	0	0.1	0	0	0	0	91	Under way using engine	3/17/2019 7:06
Unknown	CA	Tug	316018851	9432957	CN6643	SEASPAN RAYEN	4918.6001	-12306.1996	0	0.1	0	0	0	0	91	Under way using engine	3/17/2019 7:06
Unknown	CA	Tug	316018851	9432957	CN6643	SEASPAN RAYEN	4918.6001	-12306.1996	0	0.1	0	0	0	0	91	Under way using engine	3/17/2019 7:06
Unknown	CA	Tug	316018851	9432957	CN6643	SEASPAN RAYEN	4918.6001	-12306.1996	0	0.1	0	0	0	0	91	Under way using engine	3/17/2019 7:06
Unknown	CA	Tug	316018851	9432957	CN6643	SEASPAN RAYEN	4918.6001	-12306.1996	0	0.1	0	0	0	0	91	Under way using engine	3/17/2019 7:06
Unknown	CA	Tug	316018851	9432957	CN6643	SEASPAN RAYEN	4918.6001	-12306.1996	0	0.1	0	0	0	0	91	Under way using engine	3/17/2019 7:06
Unknown	CA	Tug	316018851	9432957	CN6643	SEASPAN RAYEN	4918.6001	-12306.1996	0	0.1	0	0	0	0	91	Under way using engine	3/17/2019 7:06
Unknown	CA	Tug	316018851	9432957	CN6643	SEASPAN RAYEN	4918.6001	-12306.1996	0	0.1	0	0	0	0	91	Under way using engine	3/17/2019 7:06
Unknown	CA	Tug	316018851	9432957	CN6643	SEASPAN RAYEN	4918.6001	-12306.1996	0	0.1	0	0	0	0	91	Under way using engine	3/17/2019 7:06
Unknown	CA	Tug	316018851	9432957	CN6643	SEASPAN RAYEN	4918.6001	-12306.1996	0	0.1	0	0	0	0	91	Under way using engine	3/17/2019 7:06
Unknown	CA	Tug	316018851	9432957	CN6643	SEASPAN RAYEN	4918.6001	-12306.1996	0	0.1	0	0	0	0	91	Under way using engine	3/17/2019 7:06
Unknown	CA	Tug	316018851	9432957	CN6643	SEASPAN RAYEN	4918.6001	-12306.1996	0	0.1	0	0	0	0	91	Under way using engine	3/17/2019 7:06
Unknown	CA	Tug	316018851	9432957	CN6643	SEASPAN RAYEN	4918.6001	-12306.1996	0	0.1	0	0	0	0	91	Under way using engine	3/17/2019 7:06
Unknown	CA	Tug	316018851	9432957	CN6643	SEASPAN RAYEN	4918.6001	-12306.1996	0	0.1	0	0	0	0	91	Under way using engine	3/17/2019 7:06
Unknown	CA	Tug	316018851	9432957	CN6643	SEASPAN RAYEN	4918.6001	-12306.1996	0	0.1	0	0	0	0	91	Under way using engine	3/17/2019 7:06
Unknown	CA	Tug	316018851	9432957	CN6643	SEASPAN RAYEN	4918.6001	-12306.1996	0	0.1	0	0	0	0	91	Under way using engine	3/17/2019 7:06
Unknown	CA	Tug	316018851	9432957	CN6643	SEASPAN RAYEN	4918.6001	-12306.1996	0	0.1	0	0	0	0	91	Under way using engine	3/17/2019 7:06
Unknown	CA	Tug	316018851	9432957	CN6643	SEASPAN RAYEN	4918.6001	-12306.1996	0	0.1	0	0	0	0	91	Under way using engine	3/17/2019 7:06
Unknown	CA	Tug	316018851	9432957	CN6643	SEASPAN RAYEN	4918.6001	-12306.1996	0	0.1	0	0	0	0	91	Under way using engine	3/17/2019 7:06
Unknown	CA	Tug	316018851	9432957	CN6643	SEASPAN RAYEN	4918.6001	-12306.1996	0	0.1	0	0	0	0	91	Under way using engine	3/17/2019 7:06
Unknown	CA	Tug	316018851	9432957	CN6643	SEASPAN RAYEN	4918.6001	-12306.1996	0	0.1	0	0	0	0	91	Under way using engine	3/17/2019 7:06
Unknown	CA	Tug	316018851	9432957	CN6643	SEASPAN RAYEN	4918.6001	-12306.1996	0	0.1	0	0	0	0	91	Under way using engine	3/17/2019 7:0

ATON type	Class	Type of ship	IMO	MMSI	Call sign	Name	Destination	Latitude (DDMM.mmmm)	Longitude (DDMM.mmmm)	SOG (knts)	ROT (deg/min)	COG (deg)	True heading	Navigational status	Msg type	Date time stamp
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPN RAVEN		4918.6001	-12306.1396	0.1	0	31	91	Under way using engine	Port	3/17/2019 7:11
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPN RAVEN		4918.6001	-12306.1396	0	0	341	92	Under way using engine		3/17/2019 7:12
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPN RAVEN		4918.6001	-12306.1396	0.1	0	98	92	Under way using engine		3/17/2019 7:12
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPN RAVEN		4918.6001	-12306.1396	0.1	0	181	92	Under way using engine		3/17/2019 7:12
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPN RAVEN		4918.6001	-12306.1396	0	0	62	92	Under way using engine		3/17/2019 7:12
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPN RAVEN		4918.6001	-12306.1396	0.1	0	350	92	Under way using engine		3/17/2019 7:12
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPN RAVEN		4918.6001	-12306.1396	0	0	264	92	Under way using engine		3/17/2019 7:13
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPN RAVEN		4918.6001	-12306.1396	0.1	0	240	92	Under way using engine		3/17/2019 7:13
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPN RAVEN		4918.6001	-12306.1396	0	0	194	92	Under way using engine		3/17/2019 7:13
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPN RAVEN		4918.6001	-12306.1396	0.1	0	259	93	Under way using engine		3/17/2019 7:13
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPN RAVEN		4918.6001	-12306.1396	0.1	0	288	92	Under way using engine		3/17/2019 7:13
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPN RAVEN		4918.6001	-12306.1396	0.1	0	160	92	Under way using engine		3/17/2019 7:13
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPN RAVEN		4918.6001	-12306.1396	0.1	0	82	92	Under way using engine		3/17/2019 7:14
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPN RAVEN		4918.6001	-12306.1396	0.1	0	303	92	Under way using engine		3/17/2019 7:14
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPN RAVEN		4918.6001	-12306.1396	0.1	0	209	92	Under way using engine		3/17/2019 7:14
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPN RAVEN		4918.6001	-12306.1445	0	0	329	91	Under way using engine		3/17/2019 7:14
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPN RAVEN		4918.6001	-12306.1396	0	0	345	91	Under way using engine		3/17/2019 7:14
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPN RAVEN		4918.6001	-12306.1396	0	0	288	91	Under way using engine		3/17/2019 7:15
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPN RAVEN		4918.6001	-12306.1396	0.1	0	106	91	Under way using engine		3/17/2019 7:15
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPN RAVEN		4918.6001	-12306.1396	0	0	287	91	Under way using engine		3/17/2019 7:15
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPN RAVEN		4918.6001	-12306.1396	0.1	0	176	91	Under way using engine		3/17/2019 7:15
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPN RAVEN		4918.6001	-12306.1445	0	0	287	91	Under way using engine		3/17/2019 7:15
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPN RAVEN		4918.6001	-12306.1396	0.1	0	191	92	Under way using engine		3/17/2019 7:15
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPN RAVEN		4918.6001	-12306.1396	0	0	59	92	Under way using engine		3/17/2019 7:16
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPN RAVEN		4918.6001	-12306.1396	0	0	254	92	Under way using engine		3/17/2019 7:16
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPN RAVEN		4918.6001	-12306.1396	0.1	0	15	92	Under way using engine		3/17/2019 7:16
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPN RAVEN		4918.6001	-12306.1396	0	0	97	91	Under way using engine		3/17/2019 7:16
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPN RAVEN		4918.6001	-12306.1445	0	0	222	91	Under way using engine		3/17/2019 7:16
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPN RAVEN		4918.6001	-12306.1396	0.1	0	181	91	Under way using engine		3/17/2019 7:16
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPN RAVEN		4918.6001	-12306.1396	0	0	300	90	Under way using engine		3/17/2019 7:17
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPN RAVEN		4918.6001	-12306.1504	0	0	137	91	Under way using engine		3/17/2019 7:17
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPN RAVEN		4918.6001	-12306.1504	0.2	0	72	90	Under way using engine		3/17/2019 7:17
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPN RAVEN		4918.6001	-12306.1504	0.1	0	354	90	Under way using engine		3/17/2019 7:17
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPN RAVEN		4918.6001	-12306.1504	0	0	187	91	Under way using engine		3/17/2019 7:17
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPN RAVEN		4918.6001	-12306.1504	0.1	0	67	91	Under way using engine		3/17/2019 7:17
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPN RAVEN	VANCOUVER	4918.6001	-12306.1504	0	0	221	91	Under way using engine		3/17/2019 7:18
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPN RAVEN		4918.6001	-12306.1396	0.1	0	172	91	Under way using engine		3/17/2019 7:18
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPN RAVEN		4918.6001	-12306.1396	0	0	299	91	Under way using engine		3/17/2019 7:18
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPN RAVEN		4918.6001	-12306.1396	0	0	301	91	Under way using engine		3/17/2019 7:18
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPN RAVEN		4918.6001	-12306.1396	0.1	0	291	90	Under way using engine		3/17/2019 7:18
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPN RAVEN		4918.6001	-12306.1396	0	0	231	90	Under way using engine		3/17/2019 7:18
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPN RAVEN		4918.6001	-12306.1396	0.1	0	357	90	Under way using engine		3/17/2019 7:19
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPN RAVEN		4918.6001	-12306.1504	0.1	0	34	90	Under way using engine		3/17/2019 7:19
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPN RAVEN		4918.6001	-12306.1504	0	0	0	90	Under way using engine		3/17/2019 7:19

ATN type	Class	Type of ship	MMSI	IMO number	Call sign	Name	Destination	Latitude (DDMM.mmmmm)	Longitude (DDMM.mmmmm)	SOC (mms)	ROT (deg)	COG (deg)	Heading (True)	Navigation status	Msg type	Port	Date time stamp
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAYEN		4918.6001	-12306.1504	0	0	223	0	90	Under way using engine	1	3/17/2019 7:19
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAYEN		4918.6001	-12306.1996	0	0	176	0	90	Under way using engine	1	3/17/2019 7:19
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAYEN		4918.6001	-12306.1504	0	0	376	0	91	Under way using engine	1	3/17/2019 7:20
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAYEN		4918.6001	-12306.1504	0	0	94	0	94	Under way using engine	1	3/17/2019 7:20
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAYEN		4918.6001	-12306.1504	0	0	138	0	91	Under way using engine	1	3/17/2019 7:20
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAYEN		4918.6001	-12306.1504	0	0	1	0	91	Under way using engine	1	3/17/2019 7:20
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAYEN		4918.6001	-12306.1504	0	0	254	0	91	Under way using engine	1	3/17/2019 7:21
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAYEN		4918.6001	-12306.1504	0	0	344	0	91	Under way using engine	1	3/17/2019 7:21
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAYEN		4918.6001	-12306.1504	0	0	1	0	91	Under way using engine	1	3/17/2019 7:21
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAYEN		4918.6001	-12306.1504	0	0	239	0	91	Under way using engine	1	3/17/2019 7:21
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAYEN		4918.6001	-12306.1504	0	0	217	0	91	Under way using engine	1	3/17/2019 7:21
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAYEN		4918.6001	-12306.1504	0	0	286	0	91	Under way using engine	1	3/17/2019 7:21
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAYEN		4918.6001	-12306.1504	0	0	335	0	91	Under way using engine	1	3/17/2019 7:21
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAYEN		4918.6001	-12306.1504	0	0	1	0	91	Under way using engine	1	3/17/2019 7:21
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAYEN		4918.6001	-12306.1504	0	0	187	0	90	Under way using engine	1	3/17/2019 7:21
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAYEN		4918.6001	-12306.1504	0	0	232	0	90	Under way using engine	1	3/17/2019 7:21
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAYEN		4918.6001	-12306.1504	0	0	15	0	90	Under way using engine	1	3/17/2019 7:21
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAYEN		4918.6001	-12306.1504	0	0	44	0	90	Under way using engine	1	3/17/2019 7:21
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAYEN		4918.6001	-12306.1504	0	0	1	0	90	Under way using engine	1	3/17/2019 7:21
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAYEN		4918.6001	-12306.1504	0	0	14	0	90	Under way using engine	1	3/17/2019 7:21
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAYEN		4918.6001	-12306.1504	0	0	341	0	90	Under way using engine	1	3/17/2019 7:21
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAYEN		4918.6001	-12306.1504	0	0	1	0	90	Under way using engine	1	3/17/2019 7:21
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAYEN		4918.6001	-12306.1504	0	0	223	0	90	Under way using engine	1	3/17/2019 7:21
Unknown	CA	Tug															

ATON type	Class	Type of ship	MMSI	IMO	Name	Destination	Latitude (DDMM.mmmmm)	Longitude (DDMM.mmmmm)	SOG (km/mnm)	ROT (deg)	COG (deg)	True heading	Navigational status	Mmsg type	Date time stamp
Unknown	CA	Tug	316018851	9432957	SEASPN RAYEN	4918.6001	-12306.1396	0	0	0	247	Unknown	91 Under way using engine	1	3/17/2019 21:24
Unknown	CA	Tug	316018851	9432957	SEASPN RAYEN	4918.6001	-12306.1396	0	0	0	217	91 Under way using engine	91 Under way using engine	1	3/17/2019 21:24
Unknown	CA	Tug	316018851	9432957	SEASPN RAYEN	4918.6001	-12306.1396	0	0	0	182	91 Under way using engine	91 Under way using engine	1	3/17/2019 21:24
Unknown	CA	Tug	316018851	9432957	SEASPN RAYEN	4918.6001	-12306.1396	0	0	0	226	91 Under way using engine	91 Under way using engine	1	3/17/2019 21:24
Unknown	CA	Tug	316018851	9432957	SEASPN RAYEN	4918.6001	-12306.1396	0	0	0	278	91 Under way using engine	91 Under way using engine	1	3/17/2019 21:24
Unknown	CA	Tug	316018851	9432957	SEASPN RAYEN	4918.6001	-12306.1504	0	0	0	309	90 Under way using engine	91 Under way using engine	1	3/17/2019 21:24
Unknown	CA	Tug	316018851	9432957	SEASPN RAYEN	4918.6001	-12306.1504	0	0	0	327	91 Under way using engine	91 Under way using engine	1	3/17/2019 21:25
Unknown	CA	Tug	316018851	9432957	SEASPN RAYEN	4918.6001	-12306.1504	0	0	0	61	91 Under way using engine	91 Under way using engine	1	3/17/2019 21:25
Unknown	CA	Tug	316018851	9432957	SEASPN RAYEN	4918.6001	-12306.1504	0	0	0	138	91 Under way using engine	91 Under way using engine	1	3/17/2019 21:25
Unknown	CA	Tug	316018851	9432957	SEASPN RAYEN	4918.6001	-12306.1504	0	0	0	355	90 Under way using engine	91 Under way using engine	1	3/17/2019 21:25
Unknown	CA	Tug	316018851	9432957	SEASPN RAYEN	4918.6001	-12306.1504	0	0	0	201	90 Under way using engine	91 Under way using engine	1	3/17/2019 21:26
Unknown	CA	Tug	316018851	9432957	SEASPN RAYEN	4918.6001	-12306.1504	0	0	0	67	90 Under way using engine	91 Under way using engine	1	3/17/2019 21:26
Unknown	CA	Tug	316018851	9432957	SEASPN RAYEN	4918.6001	-12306.1504	0	0	0	60	90 Under way using engine	91 Under way using engine	1	3/17/2019 21:26
Unknown	CA	Tug	316018851	9432957	SEASPN RAYEN	4918.6001	-12306.1504	0	0	0	113	91 Under way using engine	91 Under way using engine	1	3/17/2019 21:26
Unknown	CA	Tug	316018851	9432957	SEASPN RAYEN	4918.6001	-12306.1504	0	0	0	48	93 Under way using engine	91 Under way using engine	1	3/17/2019 21:27
Unknown	CA	Tug	316018851	9432957	SEASPN RAYEN	4918.6001	-12306.1504	0	0	0	120	94 Under way using engine	91 Under way using engine	1	3/17/2019 21:27
Unknown	CA	Tug	316018851	9432957	SEASPN RAYEN	4918.6001	-12306.1396	0	0	0	2	96 Under way using engine	91 Under way using engine	1	3/17/2019 21:27
Unknown	CA	Tug	316018851	9432957	SEASPN RAYEN	4918.6001	-12306.1396	0	0	0	60	96 Under way using engine	91 Under way using engine	1	3/17/2019 21:27
Unknown	CA	Tug	316018851	9432957	SEASPN RAYEN	4918.6001	-12306.1396	0	0	0	13	96 Under way using engine	91 Under way using engine	1	3/17/2019 21:27
Unknown	CA	Tug	316018851	9432957	SEASPN RAYEN	4918.6001	-12306.1396	0	0	0	79	99 Under way using engine	91 Under way using engine	1	3/17/2019 21:27
Unknown	CA	Tug	316018851	9432957	SEASPN RAYEN	4918.6001	-12306.1396	0	0	0	75	95 Under way using engine	91 Under way using engine	1	3/17/2019 21:27
Unknown	CA	Tug	316018851	9432957	SEASPN RAYEN	4918.6001	-12306.1396	0	0	0	2	92 Under way using engine	91 Under way using engine	1	3/17/2019 21:27
Unknown	CA	Tug	316018851	9432957	SEASPN RAYEN	4918.6001	-12306.1396	0	0	0	66	90 Under way using engine	91 Under way using engine	1	3/17/2019 21:27
Unknown	CA	Tug	316018851	9432957	SEASPN RAYEN	4918.6001	-12306.1396	0	0	0	30	90 Under way using engine	91 Under way using engine	1	3/17/2019 21:27
Unknown	CA	Tug	316018851	9432957	SEASPN RAYEN	4918.6001	-12306.1396	0	0	0	117	97 Under way using engine	91 Under way using engine	1	3/17/2019 21:27
Unknown	CA	Tug	316018851	9432957	SEASPN RAYEN	4918.6001	-12306.1396	0	0	0	112	102 Under way using engine	91 Under way using engine	3	3/17/2019 21:27

ATON type	Class	Type of ship	IMO	MMSI	number	Call sign	Name	Destination	Latitude (DDMM.mmmm)	Longitude (DDMM.mmmm)	SOG (knts)	ROT (deg/min)	COG (deg)	True heading	Navigational status	Msg type	Port	Date time stamp
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.5898	-12306.1299	2.9	-720	125	106	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:27
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.5898	-12306.1299	2.9	-720	111	107	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:28
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.5898	-12306.1201	5.3	-720	123	99	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:28
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.5898	-12306.1104	4.8	-720	111	94	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:28
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.5898	-12306.0996	5.5	-720	84	103	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:28
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.5801	-12306.0898	6.7	-720	107	130	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:28
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.5801	-12306.0801	6.6	-720	120	135	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:28
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.5801	-12306.0703	5.2	-720	149	127	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:28
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.5698	-12306.0596	5.1	-720	130	117	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:28
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.5698	-12306.0498	6.7	-720	115	115	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:28
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.5601	-12306.04	7.1	-720	123	122	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:28
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.5498	-12306.0098	7.9	-720	132	140	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:28
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.54	-12306	8.4	-720	141	148	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:28
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.5298	-12305.9902	9.2	-720	153	166	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:29
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.52	-12305.9902	10	-720	176	166	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:29
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.5	-12305.9805	10.4	-720	176	172	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:29
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.46	-12305.9697	11.6	-720	167	162	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:29
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.4302	-12305.96	12.2	-720	0	166	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:29
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.4302	-12305.96	12.9	-720	0	168	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:29
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.4302	-12305.96	12.4	-720	157	162	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:29
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.4302	-12305.96	12.5	-720	0	162	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:29
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.3999	-12305.9502	12.3	-720	157	157	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:29
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.3999	-12305.9297	12.1	-720	156	152	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:29
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.3799	-12305.9199	11.9	-720	153	151	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:29
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.3701	-12305.9199	11.8	-720	153	150	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:29
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.3501	-12305.9102	11.9	-720	153	144	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:30
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.3398	-12305.9004	11.1	-720	145	138	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:30
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.3301	-12305.8799	10.6	-720	141	139	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:30
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.3198	-12305.8701	9.5	-720	143	140	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:30
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.3101	-12305.8701	9.2	-720	143	139	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:30
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.2998	-12305.8604	8.8	-720	147	136	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:30
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.2998	-12305.8496	8.2	-720	138	134	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:30
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.29	-12305.8398	8.2	-720	140	133	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:30
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.2798	-12305.8301	8.1	-720	134	134	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:30
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.2798	-12305.8203	8	-720	136	136	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:30
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.27	-12305.8096	8.1	-720	144	136	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:30

ATON type	Class	Type of ship	IMO	MMSI	Call sign	Name	Destination	Latitude (DDMM.mmmm)	Longitude (DDMM.mmmm)	SOG (knts)	ROT (deg/min)	COG (deg)	True heading	Navigational status	Msg type	Port	Date time stamp
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.2505	-12305.7891	8.2	-720	138	127	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:30
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.25	-12305.7803	8	-720	130	125	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:30
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.2402	-12305.7803	8.2	-720	130	125	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:30
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.2402	-12305.7598	8.2	-720	123	123	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:31
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.2324	-12305.7539	8.3	-720	128	124	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:31
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.2324	-12305.75	8.3	-720	123	124	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:31
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.23	-12305.75	8.3	-720	121	123	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:31
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.2202	-12305.7305	7.7	-720	121	133	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:31
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.2202	-12305.7305	7.7	-720	125	140	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:31
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.2202	-12305.7197	7	-720	145	149	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:31
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.21	-12305.7197	6.6	-720	145	153	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:31
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.2002	-12305.71	6.4	-720	161	156	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:31
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.2002	-12305.71	5.5	-720	159	153	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:31
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.2002	-12305.71	4.9	-720	166	149	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:31
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1899	-12305.7002	4.4	-720	150	145	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:31
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1899	-12305.7002	3.8	-720	163	148	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:31
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1802	-12305.7002	3.1	-720	154	148	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:31
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1777	-12305.6943	2.6	-720	181	147	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:31
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1802	-12305.6904	3	-720	134	146	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:31
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1699	-12305.6904	3.6	-720	170	145	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:31
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1699	-12305.6904	4	-720	129	144	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:32
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1699	-12305.6904	4.3	-720	140	147	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:32
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1699	-12305.6797	3.5	-720	158	150	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:32
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.6797	3.6	-720	125	154	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:32
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.6719	1.2	-720	166	148	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:32
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1538	-12305.6699	1.8	-720	152	154	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:32
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.6699	2.8	-720	177	141	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:32
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.6699	2.7	-720	137	133	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:32
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1401	-12305.6602	2.8	-720	112	124	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:32
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1401	-12305.6602	1.5	-720	86	139	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:32
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1401	-12305.6602	0.9	-720	58	135	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:32
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1401	-12305.6602	1.1	-720	251	126	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:32
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1401	-12305.6602	1.3	-720	275	121	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:33
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1401	-12305.6602	1.1	-720	309	117	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:33
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1401	-12305.6602	1.4	-720	280	112	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:33
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.6602	1.4	-720	288	110	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:33
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.6699	1.5	-720	274	113	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:33
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.6699	1.2	-720	0	0	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:33
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.6699	1.8	-720	211	114	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:33
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.6699	1.4	-720	22	115	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:33
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.6699	0.5	-720	157	114	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:33



ATON type	Class	Type of ship	IMO	MMSI	Name	Destination	Latitude (DDMM.mmmm)	Longitude (DDMM.mmmm)	SOG (knts)	ROT (deg/min)	COG (deg)	True heading	Navigational status	Msg type	Port	Date time stamp
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.1499	-12305.6699	0.6	-720	93	110	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:33
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.1499	-12305.6699	1.7	-720	143	99	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:33
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.1401	-12305.6602	2.1	-720	98	82	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:33
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.1401	-12305.6504	3.2	-720	73	72	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:33
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.1499	-12305.6504	3.9	-720	75	70	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:33
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.1499	-12305.6504	4.3	-720	69	69	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:34
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.1489	-12305.6367	4.8	-720	67	68	Under way using engine	5	10.208.34.241.9040	3/17/2019 7:34
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.1602	-12305.5996	5.7	-720	73	90	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:34
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.1602	-12305.5996	5.8	-720	81	95	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:34
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.1602	-12305.5988	5.7	-720	81	98	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:34
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.1602	-12305.5801	5.7	-720	99	94	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:34
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.1611	-12305.5864	6	-720	89	92	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:34
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.1602	-12305.5498	5.9	-720	88	90	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:34
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.1602	-12305.54	6.1	-720	0	90	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:34
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.1602	-12305.5195	5.6	-720	86	91	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:34
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.1602	-12305.5098	5.2	-720	88	93	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:34
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.1602	-12305.5098	5	-720	88	93	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:34
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.1602	-12305.5	5	-720	87	94	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:35
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.1602	-12305.4902	4.9	-720	87	98	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:35
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.1602	-12305.4902	4.1	-720	84	104	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:35
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.1602	-12305.4805	2.9	-720	97	113	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:35
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.1602	-12305.4805	2.5	-720	94	109	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:35
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.1602	-12305.4805	1.6	-720	135	98	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:35
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.1602	-12305.4697	0.7	-720	78	87	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:35
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.1602	-12305.4697	0.7	-720	166	72	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:35
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.1602	-12305.4697	0.5	-720	282	72	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:35
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.1602	-12305.4697	0.9	-720	217	69	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:35
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.1602	-12305.4805	1.1	-720	241	66	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:35
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.1602	-12305.4805	1.9	-720	221	67	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:35
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.1602	-12305.4805	2.6	-720	279	86	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:35
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.1602	-12305.4902	2.1	-720	292	96	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:35
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.1602	-12305.5	3.3	-720	324	109	Under way using engine	5	10.208.34.241.9040	3/17/2019 7:35
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.1602	-12305.5	1.2	-720	291	135	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:36
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.1602	-12305.5	1.4	-720	356	157	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:36
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.1602	-12305.5	0.1	-720	144	171	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:36
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.1602	-12305.5	2.1	-720	175	200	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:36
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.1602	-12305.5	2.6	-720	205	222	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:36

ATON type	Class	Type of ship	IMO	MMSI	Call sign	Name	Destination	Latitude (DDMM.mmmm)	Longitude (DDMM.mmmm)	SOG (knts)	ROT (deg/min)	COG (deg)	True heading	Navigational status	Msg type	Port	Date time stamp
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.5	3.8	-720	207	246	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:36
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.5098	3.7	-720	238	265	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:36
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.5098	3.2	-720	235	286	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:36
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1528	-12305.5186	2.8	-720	277	301	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:36
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.5195	2.8	-720	295	299	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:36
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.5303	3.3	-720	295	294	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:36
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.54	4.4	-720	287	287	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:36
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.5498	4.9	-720	292	276	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:36
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.5596	5.3	-720	279	274	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:36
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.5596	5.5	-720	274	273	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:36
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.5703	5.8	-720	284	268	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:37
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.5801	5.7	-720	271	264	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:37
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1699	-12305.5801	6	-720	275	260	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:37
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.5966	6	-720	261	256	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:37
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.5996	6.3	-720	267	251	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:37
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.6104	6.2	-720	266	240	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:37
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.6201	5.7	-720	254	229	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:37
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.6299	5.4	-720	249	213	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:37
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.6299	4.3	-720	229	197	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:37
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.6396	3.1	-720	202	183	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:37
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1421	-12305.6426	1.5	-720	182	153	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:37
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1401	-12305.6596	1.3	-720	85	135	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:39
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1401	-12305.6596	1.5	-720	80	129	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:39
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1401	-12305.6596	1.4	-720	79	126	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:39
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1401	-12305.6596	1.2	-720	69	123	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:38
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1401	-12305.6596	1	-720	76	120	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:38
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1401	-12305.6596	0.8	-720	75	119	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:38
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1401	-12305.6504	0.5	-720	67	117	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:38
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1401	-12305.6504	0.2	-720	78	117	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:38
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1401	-12305.6504	0.1	-720	0	117	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:38
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1401	-12305.6465	0.5	-720	223	118	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:38
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1401	-12305.6504	0.1	-720	205	121	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:38
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1401	-12305.6504	0.1	-720	210	124	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:38
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1401	-12305.6504	0.2	-720	302	126	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:38
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1401	-12305.6504	0.3	-720	238	128	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:38
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1401	-12305.6504	0.5	-720	264	131	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:38
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1401	-12305.6504	0.4	-720	241	134	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:38
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1401	-12305.6504	0.1	-720	259	140	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:38
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1401	-12305.6596	0.4	-720	263	142	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:38
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1411	-12305.6436	0.3	-720	225	146	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:38
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1401	-12305.6596	0.5	-720	230	150	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:37
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1401	-12305.6596	0.3	-720	138	152	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:37
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1401	-12305.6596	1.5	-720	182	153	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:37



ATON type	Class	Type of ship	IMO	MMSI	Call sign	Name	Destination	Latitude (DDMM.mmmm)	Longitude (DDMM.mmmm)	SOG (knts)	ROT (deg/min)	COG (deg)	True heading	Navigational status	Msg type	Port	Date time stamp
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.6104	0.4	-720	306	192	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:42
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.6104	0.1	-720	307	190	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:42
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.6104	0.2	0	333	190	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:42
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.6104	0.1	0	332	190	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:42
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.6104	0.2	0	335	190	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:42
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.6104	0.2	0	344	189	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:42
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.6104	0.3	-720	296	187	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:42
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.6104	0.6	-720	23	185	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:42
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.6104	0.7	-720	292	183	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:42
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.6104	0.8	-720	299	180	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:42
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.6104	0.4	0	323	179	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:42
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.6104	0.3	-720	52	181	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:42
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.6104	0.4	-720	77	183	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:42
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.6104	0.7	-720	254	186	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:43
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1553	-12305.6123	0.3	-720	95	188	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:43
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.6104	0.5	-720	279	190	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:43
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.6104	0.2	-720	113	193	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:43
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.6104	0.4	-720	276	195	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:43
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.6104	0	-720	232	198	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:43
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.6104	0.4	-720	283	201	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:43
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.6104	0.2	-720	229	202	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:43
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.6104	0.7	-720	262	201	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:43
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.6201	0.5	-720	253	199	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:43
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.6201	0.6	-720	244	196	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:43
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.6201	0.8	-720	240	193	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:43
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.6201	0.9	-720	246	190	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:43
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.6201	0.6	-720	256	185	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:43
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.6201	0.8	-720	258	182	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:43
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1528	-12305.623	0.6	-720	243	176	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:44
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.6201	0.7	-720	264	171	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:44
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.6201	0.4	-720	248	169	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:44
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.6299	0.4	-720	249	163	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:44
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.6299	0.7	-720	253	163	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:44
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.6299	0.2	-720	233	166	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:44
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.6299	0.2	-720	159	167	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:44
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.6299	0.5	-720	226	169	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:44
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.6299	0.3	-720	210	171	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:44
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.6299	0.4	-720	227	174	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:44
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.6299	0.4	-720	234	179	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:44
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.6299	0.4	-720	215	181	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:44
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.6299	0.8	-720	238	180	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:44
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.6299	0.5	-720	205	180	Under way using engine	3	10 208.34.241.9040	3/17/2019 7:44

ATON type	Class	Type of ship	MMSI	IMO	number	Call sign	Name	Destination	Latitude (DDMM.mmmmm)	Longitude (DDMM.mmmmm)	SOC (DDMM.mmmmm)	ROT (deg)	COG (deg)	Heading (True)	Navigation status	Msg type	Port	Date time stamp	
Unknown	CA	Tug	316018851	9432957	CFM6643	SEASPAVN RAYEN	4918 1409	12305 6299	4918 1409	-12305 6299	0	0.4	0	208	179	Under way using engine	3	10 028 34, 241 9040	3/17/2019 7:45
Unknown	CA	Tug	316018851	9432957	CFM6643	SEASPAVN RAYEN	4918 1409	12305 6299	4918 1409	-12305 6299	0	0.6	0	207	178	Under way using engine	3	10 028 34, 241 9040	3/17/2019 7:45
Unknown	CA	Tug	316018851	9432957	CFM6643	SEASPAVN RAYEN	4918 1409	12305 6299	4918 1409	-12305 6299	0	0.5	0	200	178	Under way using engine	3	10 028 34, 241 9040	3/17/2019 7:45
Unknown	CA	Tug	316018851	9432957	CFM6643	SEASPAVN RAYEN	4918 1409	12305 6299	4918 1409	-12305 6299	0	0.5	0	200	177	Under way using engine	3	10 028 34, 241 9040	3/17/2019 7:45
Unknown	CA	Tug	316018851	9432957	CFM6643	SEASPAVN RAYEN	4918 1409	12305 6299	4918 1409	-12305 6299	0	0.6	0	221	176	Under way using engine	3	10 028 34, 241 9040	3/17/2019 7:45
Unknown	CA	Tug	316018851	9432957	CFM6643	SEASPAVN RAYEN	4918 1409	12305 6299	4918 1409	-12305 6299	0	0.5	0	226	176	Under way using engine	3	10 028 34, 241 9040	3/17/2019 7:45
Unknown	CA	Tug	316018851	9432957	CFM6643	SEASPAVN RAYEN	4918 1409	12305 6299	4918 1409	-12305 6299	0	0.5	0	236	174	Under way using engine	3	10 028 34, 241 9040	3/17/2019 7:45
Unknown	CA	Tug	316018851	9432957	CFM6643	SEASPAVN RAYEN	4918 1409	12305 6299	4918 1409	-12305 6299	0	0.8	0.5	237	173	Under way using engine	3	10 028 34, 241 9040	3/17/2019 7:45
Unknown	CA	Tug	316018851	9432957	CFM6643	SEASPAVN RAYEN	4918 1409	12305 6299	4918 1409	-12305 6299	0	0.8	0.5	228	172	Under way using engine	3	10 028 34, 241 9040	3/17/2019 7:45
Unknown	CA	Tug	316018851	9432957	CFM6643	SEASPAVN RAYEN	4918 1409	12305 6299	4918 1409	-12305 6299	0	0.8	0.5	228	171	Under way using engine	3	10 028 34, 241 9040	3/17/2019 7:45
Unknown	CA	Tug	316018851	9432957	CFM6643	SEASPAVN RAYEN	4918 1409	12305 6299	4918 1409	-12305 6299	0	0.7	0.5	241	173	Under way using engine	3	10 028 34, 241 9040	3/17/2019 7:45
Unknown	CA	Tug	316018851	9432957	CFM6643	SEASPAVN RAYEN	4918 1409	12305 6299	4918 1409	-12305 6299	0	0.5	0	220	176	Under way using engine	3	10 028 34, 241 9040	3/17/2019 7:45
Unknown	CA	Tug	316018851	9432957	CFM6643	SEASPAVN RAYEN	4918 1409	12305 6299	4918 1409	-12305 6299	0	0.6	0.6	230	177	Under way using engine	3	10 028 34, 241 9040	3/17/2019 7:45
Unknown	CA	Tug	316018851	9432957	CFM6643	SEASPAVN RAYEN	4918 1409	12305 6299	4918 1409	-12305 6299	0	0.7	0.6	238	177	Under way using engine	3	10 028 34, 241 9040	3/17/2019 7:46
Unknown	CA	Tug	316018851	9432957	CFM6643	SEASPAVN RAYEN	4918 1409	12305 6299	4918 1409	-12305 6299	0	0.8	0.6	227	177	Under way using engine	3	10 028 34, 241 9040	3/17/2019 7:46
Unknown	CA	Tug	316018851	9432957	CFM6643	SEASPAVN RAYEN	4918 1409	12305 6299	4918 1409	-12305 6299	0	0.7	0.7	245	177	Under way using engine	3	10 028 34, 241 9040	3/17/2019 7:46
Unknown	CA	Tug	316018851	9432957	CFM6643	SEASPAVN RAYEN	4918 1409	12305 6299											

ATON type	Class	Type of ship	MMSI	IMO	number	Call sign	Name	Destination	Latitude (DDMM.mmmmm)	Longitude (DDMM.mmmmm)	SOC (DDMM.mmmmm)	ROT (deg/mt)	COG (deg)	Heading (true)	Navigation status	Msg type	Port	Date time stamp
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAYEN	4918 1299	12305.6699	0.5	-720	187	0	-720	183	Under way using engine	3	10 028 34, 241 9040	3/17/2019 7:47
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAYEN	4918 1299	12305.6699	0.5	-720	182	0	-720	182	Under way using engine	3	10 028 34, 241 9040	3/17/2019 7:47
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAYEN	4918 1299	12305.6699	0.6	-720	204	0	-720	189	Under way using engine	3	10 028 34, 241 9040	3/17/2019 7:48
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAYEN	4918 1299	12305.6699	0.6	-720	224	0	-720	189	Under way using engine	3	10 028 34, 241 9040	3/17/2019 7:48
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAYEN	4918 1299	12305.6699	0.9	-720	242	0	-720	192	Under way using engine	3	10 028 34, 241 9040	3/17/2019 7:48
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAYEN	4918 1299	12305.6699	0.5	-720	242	0	-720	194	Under way using engine	3	10 028 34, 241 9040	3/17/2019 7:48
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAYEN	4918 1299	12305.6699	0.8	-720	272	0	-720	202	Under way using engine	3	10 028 34, 241 9040	3/17/2019 7:48
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAYEN	4918 1299	12305.6699	0.6	-720	212	0	-720	196	Under way using engine	3	10 028 34, 241 9040	3/17/2019 7:48
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAYEN	4918 1299	12305.6699	0.7	-720	240	0	-720	197	Under way using engine	3	10 028 34, 241 9040	3/17/2019 7:48
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAYEN	4918 1299	12305.6699	0.8	-720	257	0	-720	199	Under way using engine	3	10 028 34, 241 9040	3/17/2019 7:48
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAYEN	4918 1299	12305.6699	0.6	-720	214	0	-720	200	Under way using engine	3	10 028 34, 241 9040	3/17/2019 7:48
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAYEN	4918 1299	12305.6699	0.6	-720	245	0	-720	200	Under way using engine	3	10 028 34, 241 9040	3/17/2019 7:48
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAYEN	4918 1299	12305.6699	0.7	-720	234	0	-720	201	Under way using engine	3	10 028 34, 241 9040	3/17/2019 7:48
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAYEN	4918 1299	12305.6699	0.7	-720	244	0	-720	201	Under way using engine	3	10 028 34, 241 9040	3/17/2019 7:48
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAYEN	4918 1299	12305.6699	0.6	-720	220	0	-720	202	Under way using engine	3	10 028 34, 241 9040	3/17/2019 7:48
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAYEN	4918 1299	12305.6699	0.7	-720	210	0	-720	202	Under way using engine	3	10 028 34, 241 9040	3/17/2019 7:48
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAYEN	4918 1299	12305.6699	0.7	-720	229	0	-720	203	Under way using engine	3	10 028 34, 241 9040	3/17/2019 7:48
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAYEN	4918 1299	12305.6699	0.8	-720	246	0	-720	203	Under way using engine	3	10 028 34, 241 9040	3/17/2019 7:49
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAYEN	4918 1299	12305.6699	0.7	-720	247	0	-720	203	Under way using engine	3	10 028 34, 241 9040	3/17/2019 7:49
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN R												

ATON type	Class	Type of ship	IMO	MMSI	number	Call sign	Name	Destination	Latitude (DDMM.mmmm)	Longitude (DDMM.mmmm)	SOG (knts)	ROT (deg/min)	COG (deg)	True heading	Navigational status	Msg type	Port	Date time stamp
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.1299	-12305.71	0.6	-720	267	209	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:50
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.1299	-12305.71	0.6	-720	267	210	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:50
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.1299	-12305.71	0.7	-720	271	211	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:50
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.1299	-12305.71	0.7	-720	264	212	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:50
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.1299	-12305.71	0.7	-720	271	213	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:50
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.1299	-12305.71	0.7	-720	272	214	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:50
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.1299	-12305.71	0.7	-720	272	216	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:50
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.1299	-12305.71	0.7	-720	277	217	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:50
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.1299	-12305.7197	0.7	-720	282	217	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:51
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.1299	-12305.7197	0.6	-720	289	216	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:51
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.1299	-12305.7197	0.6	-720	291	213	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:51
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.1299	-12305.7197	0.7	-720	302	209	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:51
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.1294	-12305.7197	0.7	-720	305	207	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:51
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.1299	-12305.7197	0.7	-720	310	203	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:51
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.1299	-12305.7197	0.7	-720	312	202	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:51
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.1299	-12305.7197	0.5	-720	294	201	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:51
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.1299	-12305.7197	0.8	-720	317	202	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:51
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.1299	-12305.7197	0.7	-720	324	201	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:51
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.1299	-12305.7197	0.9	-720	330	199	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:51
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.1299	-12305.7197	1	-720	334	198	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:51
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.1299	-12305.7305	1.1	-720	328	200	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:51
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.1401	-12305.7305	0.8	-720	335	203	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:51
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.1401	-12305.7305	0.8	-720	312	207	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:51
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.1401	-12305.7305	0.4	-720	335	209	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:51
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.1372	-12305.7285	0.8	-720	291	215	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:51
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.1401	-12305.7305	0.6	-720	247	221	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:52
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.1401	-12305.7305	0.9	-720	260	226	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:52
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.1401	-12305.7305	1.3	-720	234	232	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:52
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.1401	-12305.7402	1.7	-720	240	237	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:52
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.1401	-12305.7402	1.8	-720	262	236	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:52
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.1299	-12305.7402	1.8	-720	242	235	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:52
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.1299	-12305.7402	1.9	-720	255	231	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:52
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.1299	-12305.7402	1.7	-720	248	229	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:52
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.1328	-12305.7471	1.9	-720	252	226	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:52
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.1299	-12305.75	1.6	-720	249	219	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:52
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.1299	-12305.75	1.6	-720	241	215	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:52
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.1299	-12305.75	1.5	-720	240	212	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:52
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.1299	-12305.7598	1.5	-720	237	207	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:52
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.1299	-12305.7598	1.5	-720	238	204	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:52
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.1299	-12305.7598	1.5	-720	244	203	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:52
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.1299	-12305.7598	1.2	-720	231	199	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:53

ATON type	Class	Type of ship	IMO	MMSI	Call sign	Name	Destination	Latitude (DDMM.mmmm)	Longitude (DDMM.mmmm)	SOG (knts)	ROT (deg/min)	COG (deg)	True heading	Navigational status	Msg type	Port	Date time stamp
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1299	-12305.7598	1.3	-720	234	196	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:53
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1299	-12305.7598	1.3	-720	223	193	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:53
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1299	-12305.7598	1.3	-720	241	191	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:53
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.7695	1.3	-720	208	192	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:53
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.7695	1.3	-720	222	194	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:53
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.7695	1.2	-720	216	197	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:53
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.7695	1.2	-720	235	197	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:53
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.7695	0.9	-720	235	193	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:53
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.7695	0.8	-720	256	189	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:53
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.7695	1	-720	279	183	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:53
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.7803	0.8	-720	278	177	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:53
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.7803	0.9	-720	253	167	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:53
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.7803	1.4	-720	240	158	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:53
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1191	-12305.7803	0.7	-720	213	147	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:53
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.7803	1.1	-720	209	141	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:53
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	VANCOUVERER	4918.1201	-12305.7803	0.9	-720	201	136	Under way using engine	5	10.208.34.241.9040	3/17/2019 7:54
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.7803	0.7	-720	174	123	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:54
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1147	-12305.7822	1.1	-720	184	119	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:54
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1099	-12305.7803	0.9	-720	145	113	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:54
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1099	-12305.7803	1	-720	162	110	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:54
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1099	-12305.7803	0.7	-720	136	107	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:54
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1099	-12305.7803	0.9	-720	158	105	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:54
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1099	-12305.7803	0.8	-720	130	102	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:54
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1099	-12305.7803	0.8	-720	98	102	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:54
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1099	-12305.7803	0.8	-720	123	102	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:54
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1099	-12305.7803	0.7	-720	112	103	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:54
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1099	-12305.7695	0.7	-720	101	105	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:54
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1099	-12305.7695	0.6	-720	119	109	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:54
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1099	-12305.7695	0.6	-720	98	111	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:54
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1099	-12305.7695	0.5	-720	131	113	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:54
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1099	-12305.7695	0.5	-720	115	118	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:55
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1099	-12305.7695	0.5	-720	140	122	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:55
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1099	-12305.7695	0.5	-720	124	126	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:55
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1099	-12305.7695	0.5	-720	130	131	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:55
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1099	-12305.7695	0.5	-720	143	133	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:55
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1099	-12305.7695	0.6	-720	173	135	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:55
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1099	-12305.7695	0.5	-720	161	136	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:55
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1099	-12305.7695	0.8	-720	0	134	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:55
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1099	-12305.7695	1	-720	165	134	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:55
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1001	-12305.7695	1.1	-720	160	133	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:55
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.103	-12305.7656	1.1	-720	150	131	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:55
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1001	-12305.7598	1.1	-720	160	125	Under way using engine	3	10.208.34.241.9040	3/17/2019 7:55







ATON type	Class	Type of ship	IMO	MMSI	number	Call sign	Name	Destination	Latitude (DDMM.mmmmm)	Longitude (DDMM.mmmmm)	SOG (knts)	ROT (deg/min)	COG (deg)	True heading	Navigational status	Msg type	Port	Date time stamp
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.02	-12305.6602	1.1	-720	166	192	Under way using engine	3	10 208.34.241.9040	3/17/2019 8:01
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.02	-12305.6602	1.3	-720	166	188	Under way using engine	3	10 208.34.241.9040	3/17/2019 8:01
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.02	-12305.6602	1.6	-720	167	178	Under way using engine	3	10 208.34.241.9040	3/17/2019 8:01
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.02	-12305.6602	1.2	-720	168	178	Under way using engine	3	10 208.34.241.9040	3/17/2019 8:01
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.02	-12305.6602	1.6	-720	156	167	Under way using engine	3	10 208.34.241.9040	3/17/2019 8:01
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.0151	-12305.6543	1.9	-720	145	156	Under way using engine	3	10 208.34.241.9040	3/17/2019 8:01
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.0098	-12305.6504	1.6	-720	151	153	Under way using engine	3	10 208.34.241.9040	3/17/2019 8:01
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.0098	-12305.6504	1.8	-720	138	151	Under way using engine	3	10 208.34.241.9040	3/17/2019 8:01
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.0098	-12305.6504	2.1	-720	139	149	Under way using engine	3	10 208.34.241.9040	3/17/2019 8:01
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.0098	-12305.6504	1.8	-720	139	148	Under way using engine	3	10 208.34.241.9040	3/17/2019 8:02
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.0098	-12305.6504	1.7	-720	132	147	Under way using engine	3	10 208.34.241.9040	3/17/2019 8:02
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.0098	-12305.6504	1.8	-720	138	145	Under way using engine	3	10 208.34.241.9040	3/17/2019 8:02
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.0098	-12305.6504	1.7	-720	136	144	Under way using engine	3	10 208.34.241.9040	3/17/2019 8:02
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918.0098	-12305.6504	1.9	-720	130	142	Under way using engine	3	10 208.34.241.9040	3/17/2019 8:02
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918	-12305.6299	1.8	-720	125	131	Under way using engine	3	10 208.34.241.9040	3/17/2019 8:02
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918	-12305.6299	1.7	-720	122	130	Under way using engine	3	10 208.34.241.9040	3/17/2019 8:02
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918	-12305.6201	1.8	-720	109	131	Under way using engine	3	10 208.34.241.9040	3/17/2019 8:02
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918	-12305.6201	1.9	-720	113	135	Under way using engine	3	10 208.34.241.9040	3/17/2019 8:02
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918	-12305.6201	2.2	-720	113	138	Under way using engine	3	10 208.34.241.9040	3/17/2019 8:02
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4918	-12305.6104	2.1	-720	124	139	Under way using engine	3	10 208.34.241.9040	3/17/2019 8:02
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4917.9902	-12305.6104	2.3	-720	116	140	Under way using engine	3	10 208.34.241.9040	3/17/2019 8:03
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4917.9902	-12305.6104	2.2	-720	132	140	Under way using engine	3	10 208.34.241.9040	3/17/2019 8:03
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4917.9902	-12305.6104	2.1	-720	117	141	Under way using engine	3	10 208.34.241.9040	3/17/2019 8:03
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4917.9902	-12305.5996	1.9	-720	125	141	Under way using engine	3	10 208.34.241.9040	3/17/2019 8:03
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4917.9902	-12305.5996	2.1	-720	117	141	Under way using engine	3	10 208.34.241.9040	3/17/2019 8:03
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4917.9902	-12305.5996	1.9	-720	123	140	Under way using engine	3	10 208.34.241.9040	3/17/2019 8:03
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4917.9902	-12305.5996	2.2	-720	115	136	Under way using engine	3	10 208.34.241.9040	3/17/2019 8:03
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4917.9902	-12305.5898	2.2	-720	126	136	Under way using engine	3	10 208.34.241.9040	3/17/2019 8:03
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4917.9902	-12305.5898	2.3	-720	115	138	Under way using engine	3	10 208.34.241.9040	3/17/2019 8:03
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4917.9902	-12305.5898	2.2	-720	115	138	Under way using engine	3	10 208.34.241.9040	3/17/2019 8:03
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4917.9902	-12305.5898	2.2	-720	118	136	Under way using engine	3	10 208.34.241.9040	3/17/2019 8:03
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4917.98	-12305.5801	2.2	-720	112	136	Under way using engine	3	10 208.34.241.9040	3/17/2019 8:03
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4917.98	-12305.5801	2.1	-720	119	135	Under way using engine	3	10 208.34.241.9040	3/17/2019 8:03
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4917.98	-12305.5703	2	-720	111	136	Under way using engine	3	10 208.34.241.9040	3/17/2019 8:03
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4917.98	-12305.5703	2	-720	122	136	Under way using engine	3	10 208.34.241.9040	3/17/2019 8:03
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4917.9771	-12305.5645	1.9	-720	120	136	Under way using engine	3	10 208.34.241.9040	3/17/2019 8:03
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4917.98	-12305.5596	2	-720	113	135	Under way using engine	3	10 208.34.241.9040	3/17/2019 8:04
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4917.98	-12305.5596	2.1	-720	114	135	Under way using engine	3	10 208.34.241.9040	3/17/2019 8:04
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4917.9702	-12305.5596	2.3	-720	109	136	Under way using engine	3	10 208.34.241.9040	3/17/2019 8:04
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4917.9702	-12305.5498	2.2	-720	123	137	Under way using engine	3	10 208.34.241.9040	3/17/2019 8:04

ATON type	Class	Type of ship	MMSI	IMO	Name	Destination	Latitude (DDMM.mmmm)	Longitude (DDMM.mmmm)	SOG (knts)	ROT (deg/min)	COG (deg)	True heading	Navigational status	Msg type	Port	Date time stamp
Unknown	CA	Tug	316018851	9432957	SEASPAN RAVEN	VANCOUVER	4917.9712	-12305.5469	2.3	-720	113	139	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:04
Unknown	CA	Tug	316018851	9432957	CFN6643							Unknown	5	10.208.34.241.9040	3/17/2019 8:04	
Unknown	CA	Tug	316018851	9432957	CFN6643		4917.9702	-12305.54	2.2	-720	123	140	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:04
Unknown	CA	Tug	316018851	9432957	CFN6643		4917.9688	-12305.5931	2.2	0	114	139	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:04
Unknown	CA	Tug	316018851	9432957	CFN6643		4917.9702	-12305.5033	2.1	-720	120	138	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:04
Unknown	CA	Tug	316018851	9432957	CFN6643		4917.96	-12305.5195	2.5	-720	117	135	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:04
Unknown	CA	Tug	316018851	9432957	CFN6643		4917.96	-12305.5195	2.5	-720	122	137	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:04
Unknown	CA	Tug	316018851	9432957	CFN6643		4917.96	-12305.5195	2.5	-720	117	135	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:04
Unknown	CA	Tug	316018851	9432957	CFN6643		4917.96	-12305.5098	2.4	-720	118	137	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:05
Unknown	CA	Tug	316018851	9432957	CFN6643		4917.96	-12305.5098	2.5	-720	119	138	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:05
Unknown	CA	Tug	316018851	9432957	CFN6643		4917.96	-12305.5098	2.4	-720	118	137	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:05
Unknown	CA	Tug	316018851	9432957	CFN6643		4917.96	-12305.5	2.6	-720	117	141	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:05
Unknown	CA	Tug	316018851	9432957	CFN6643		4917.9502	-12305.5	2.4	-720	114	142	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:05
Unknown	CA	Tug	316018851	9432957	CFN6643		4917.9502	-12305.4902	2.6	-720	120	145	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:05
Unknown	CA	Tug	316018851	9432957	CFN6643		4917.9502	-12305.4902	2.6	-720	127	148	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:05
Unknown	CA	Tug	316018851	9432957	CFN6643		4917.9502	-12305.4902	2.6	-720	130	151	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:05
Unknown	CA	Tug	316018851	9432957	CFN6643		4917.9502	-12305.4902	2.6	-720	133	154	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:05
Unknown	CA	Tug	316018851	9432957	CFN6643		4917.9482	-12305.4824	2.6	0	125	155	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:05
Unknown	CA	Tug	316018851	9432957	CFN6643		4917.9502	-12305.4805	2.4	-720	135	152	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:05
Unknown	CA	Tug	316018851	9432957	CFN6643		4917.9399	-12305.4697	2.6	-720	137	144	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:05
Unknown	CA	Tug	316018851	9432957	CFN6643		4917.9399	-12305.4688	2.7	-720	132	137	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:05
Unknown	CA	Tug	316018851	9432957	CFN6643		4917.9399	-12305.4697	2.6	-720	112	139	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:05
Unknown	CA	Tug	316018851	9432957	CFN6643		4917.9399	-12305.46	2.9	-720	121	141	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:05
Unknown	CA	Tug	316018851	9432957	SEASPAN RAVEN	VANCOUVER	4917.9351	-12305.4561	2.7	-720	123	151	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:06
Unknown	CA	Tug	316018851	9432957	SEASPAN RAVEN		4917.9302	-12305.4502	2.6	0	118	151	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:06
Unknown	CA	Tug	316018851	9432957	SEASPAN RAVEN		4917.9302	-12305.4502	2.4	0	118	151	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:06
Unknown	CA	Tug	316018851	9432957	SEASPAN RAVEN		4917.9302	-12305.4404	2.6	0	120	150	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:06
Unknown	CA	Tug	316018851	9432957	SEASPAN RAVEN		4917.9302	-12305.4404	2.6	0	116	150	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:06
Unknown	CA	Tug	316018851	9432957	SEASPAN RAVEN		4917.9302	-12305.4307	2.5	0	118	151	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:06
Unknown	CA	Tug	316018851	9432957	SEASPAN RAVEN		4917.9258	-12305.4307	2.5	0	118	151	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:06
Unknown	CA	Tug	316018851	9432957	SEASPAN RAVEN		4917.9202	-12305.4297	2.4	0	118	151	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:06
Unknown	CA	Tug	316018851	9432957	SEASPAN RAVEN		4917.9202	-12305.4297	2.4	0	117	151	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:06
Unknown	CA	Tug	316018851	9432957	SEASPAN RAVEN		4917.9199	-12305.4199	2.5	-720	117	152	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:06
Unknown	CA	Tug	316018851	9432957	SEASPAN RAVEN		4917.9194	-12305.4121	2.5	0	117	152	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:06
Unknown	CA	Tug	316018851	9432957	SEASPAN RAVEN		4917.9199	-12305.4102	2.5	0	116	153	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:06
Unknown	CA	Tug	316018851	9432957	SEASPAN RAVEN		4917.9199	-12305.4004	2.4	0	117	153	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:07

ATON type	Class	Type of ship	IMO	MMSI	number	Call sign	Name	Destination	Latitude (DDMM.mmmm)	Longitude (DDMM.mmmm)	SOG (knts)	ROT (deg/min)	COG (deg)	True heading	Navigational status	Msg type	Port	Date time stamp
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4917.9199	-12305.4004	2.4	0	118	153	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:07
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4917.9102	-12305.4004	2.6	0	117	153	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:07
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4917.9102	-12305.3896	2.5	0	119	154	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:07
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4917.9102	-12305.3896	2.4	0	116	154	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:07
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4917.9102	-12305.3896	2.4	0	115	154	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:07
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4917.9102	-12305.3896	2.5	0	120	154	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:07
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4917.9102	-12305.3701	2.3	0	120	153	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:07
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4917.9102	-12305.3701	2.4	0	116	153	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:07
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4917.9067	-12305.375	2.3	0	117	153	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:07
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4917.9102	-12305.3799	2.5	0	120	154	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:07
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4917.9092	-12305.3818	2.4	0	122	154	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:07
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4917.9102	-12305.3896	2.5	0	120	154	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:07
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4917.9102	-12305.3896	2.4	0	115	154	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:07
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4917.9102	-12305.3896	2.4	0	116	154	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:07
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4917.8999	-12305.3604	2.5	0	117	152	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:07
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4917.8999	-12305.3604	2.5	0	120	152	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:07
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4917.8999	-12305.3496	2.4	0	116	152	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:07
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4917.8975	-12305.3486	2.4	0	119	152	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:07
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4917.8999	-12305.3496	2.4	0	118	153	Under way using engine	1	10.208.34.241.9040	3/17/2019 8:08
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4917.8901	-12305.3398	2.4	0	118	153	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:08
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4917.8901	-12305.3398	2.3	0	116	153	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:08
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4917.8901	-12305.3301	2.3	-720	117	154	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:08
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4917.8901	-12305.3301	2.5	-720	119	154	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:08
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4917.8901	-12305.3203	2.4	0	120	155	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:08
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4917.8901	-12305.3203	2.3	0	116	155	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:08
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4917.8901	-12305.3203	2.4	0	117	155	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:08
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4917.8901	-12305.3203	2.4	0	117	155	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:08
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4917.8901	-12305.3096	2.2	0	119	154	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:08
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4917.8799	-12305.3096	2.2	-720	119	153	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:08
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4917.8813	-12305.3018	2.3	0	122	153	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:08
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4917.8799	-12305.2998	2.3	0	118	153	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:08
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4917.8784	-12305.2998	2.3	0	119	152	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:09
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4917.8799	-12305.2998	2.3	0	121	152	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:09
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4917.8799	-12305.29	2.2	0	118	152	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:09
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4917.8799	-12305.29	2.3	0	118	152	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:09
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4917.8799	-12305.29	2.3	0	120	152	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:09
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4917.8799	-12305.2803	2.3	0	117	152	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:09
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4917.8701	-12305.2803	2.3	0	118	153	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:09
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4917.8701	-12305.2803	2.4	0	117	153	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:09
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4917.8701	-12305.2695	2.3	-720	120	154	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:09
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4917.8701	-12305.2695	2.4	-720	119	155	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:09
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4917.8701	-12305.2695	2.3	-720	118	155	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:09
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4917.8701	-12305.2598	2.2	-720	120	156	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:09
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4917.8633	-12305.2549	2	-720	125	153	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:09



ATON type	Class	Type of ship	IMO	MMSI	Call sign	Name	Destination	Latitude (DDMM.mmmm)	Longitude (DDMM.mmmm)	SOG (knts)	ROT (deg/min)	COG (deg)	True heading	Navigational status	Msg type	Port	Date time stamp
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4917.8198	-12305.1366	1.4	0	120	142	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:12
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4917.8198	-12305.1299	1.6	0	106	142	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:12
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4917.8198	-12305.1299	1.4	0	110	142	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:12
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4917.8198	-12305.1299	1.4	-720	113	143	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:12
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4917.8198	-12305.1299	1.5	-720	104	144	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:12
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4917.8198	-12305.1299	1.5	0	109	145	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:12
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4917.8101	-12305.1201	1.4	-720	106	146	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:12
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4917.8101	-12305.1201	1.4	-720	109	148	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:12
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4917.8101	-12305.1201	1.6	-720	103	151	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:13
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4917.8101	-12305.1201	1.5	-720	107	153	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:13
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4917.8101	-12305.1201	1.4	-720	111	154	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:13
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4917.8101	-12305.1104	1.5	-720	109	156	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:13
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4917.8101	-12305.1104	1.4	-720	116	157	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:13
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4917.8101	-12305.1104	1.6	0	112	157	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:13
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4917.8101	-12305.1104	1.5	0	123	157	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:13
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4917.8101	-12305.1104	1.6	-720	118	158	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:13
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4917.8101	-12305.0966	1.7	-720	113	158	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:13
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4917.8101	-12305.0966	1.5	-720	118	159	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:13
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4917.8101	-12305.0966	1.6	-720	112	160	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:13
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4917.8101	-12305.0898	1.7	-720	115	163	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:13
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4917.8101	-12305.0898	1.5	-720	118	165	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:13
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4917.7998	-12305.0898	1.7	-720	113	166	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:13
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4917.7998	-12305.0801	1.6	-720	119	166	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:14
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4917.7998	-12305.0801	1.5	-720	121	168	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:14
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4917.7998	-12305.0801	1.6	-720	118	167	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:14
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4917.7998	-12305.0801	1.5	-720	124	169	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:14
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4917.7998	-12305.0801	1.5	-720	124	171	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:14
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4917.7998	-12305.0801	1.5	-720	123	172	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:14
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4917.7998	-12305.0742	1.4	-720	115	173	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:14
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4917.7998	-12305.0703	1.5	-720	113	172	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:14
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4917.7998	-12305.0703	1.6	0	112	172	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:14
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4917.7998	-12305.0703	1.8	-720	125	173	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:14
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4917.7998	-12305.0703	1.2	-720	116	176	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:14
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4917.7954	-12305.0635	3.1	-720	113	187	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:14
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4917.7954	-12305.0596	3.5	-720	119	202	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:14
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4917.79	-12305.0498	3.1	-720	132	227	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:14
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4917.79	-12305.0498	2.6	-720	139	235	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:14
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4917.79	-12305.0498	1.9	-720	130	241	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:14
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4917.79	-12305.04	1.8	-720	130	244	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:14
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4917.7798	-12305.04	1.4	0	122	245	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:14
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4917.7798	-12305.04	1.1	0	112	245	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:15
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN		4917.7798	-12305.04	1.7	0	133	246	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:15

ATON type	Class	Type of ship	IMO	MMSI	number	Call sign	Name	Destination	Latitude (DDMM.mmmm)	Longitude (DDMM.mmmm)	SOG (knts)	ROT (deg/min)	COG (deg)	True heading	Navigational status	Msg type	Port	Date time stamp
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.7798	-12305.04	1.4	-720	126	247	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:15
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.7798	-12305.0332	1.6	-720	137	249	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:15
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.7798	-12305.0312	1.3	-720	134	248	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:15
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.7798	-12305.0303	1.4	-720	137	248	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:15
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.7798	-12305.0303	1.3	-720	133	247	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:15
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.7798	-12305.0303	1.3	-720	134	247	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:15
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.7798	-12305.0303	1	-720	139	246	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:15
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.7798	-12305.0303	1.3	-720	151	248	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:15
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.77	-12305.0195	1.1	-720	136	248	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:15
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.77	-12305.0195	1	-720	130	247	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:15
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.77	-12305.0195	1.1	-720	131	246	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:15
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.77	-12305.0195	0.9	-720	132	244	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:15
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.77	-12305.0195	1	-720	133	242	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:15
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.77	-12305.0195	0.8	-720	130	241	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:16
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.77	-12305.0195	0.9	-720	136	240	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:16
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.77	-12305.0195	1	-720	136	238	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:16
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.77	-12305.0195	0.9	-720	135	237	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:16
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.77	-12305.0195	0.9	-720	127	235	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:16
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.77	-12305.0098	1	-720	124	234	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:16
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.77	-12305.0098	0.8	-720	127	229	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:16
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.77	-12305.0098	0.8	-720	128	227	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:16
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.7656	-12305.0107	1.1	-720	133	226	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:16
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.77	-12305.0098	0.7	-720	131	224	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:16
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.7598	-12305.0098	0.6	-720	127	220	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:16
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.7598	-12305.0098	0.9	-720	137	218	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:16
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.7598	-12305.0098	0.8	-720	145	213	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:16
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.7598	-12305	1.1	-720	0	212	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:17
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.7598	-12305	1.2	-720	136	213	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:17
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.7598	-12305	1.4	-720	139	214	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:17
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.7598	-12305	1.1	-720	137	216	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:17
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.7598	-12305	1.3	-720	137	216	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:17
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.7568	-12304.9971	1.2	-720	136	218	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:17
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.7559	-12304.9961	1.1	-720	135	219	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:17
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.7598	-12305	1.4	-720	140	221	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:17
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.75	-12304.9902	1.3	-720	137	223	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:17
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.75	-12304.9902	1.3	-720	138	224	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:17
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.75	-12304.9902	1.2	-720	135	225	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:17
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.75	-12304.9902	1.2	-720	135	225	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:17
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.75	-12304.9902	1.1	-720	138	229	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:17
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.75	-12304.9902	1.6	-720	146	232	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:17
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.75	-12304.9902	1.7	-720	149	237	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:17



ATON type	Class	Type of ship	IMO	MMSI	number	Call sign	Name	Destination	Latitude (DDMM.mmmmm)	Longitude (DDMM.mmmmm)	SOG (knts)	ROT (deg/min)	COG (deg)	True heading	Navigational status	Msg type	Port	Date time stamp
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4917.75	-12304.9805	2	-720	152	243	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:17
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4917.7402	-12304.9805	1.7	-720	155	249	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:17
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4917.7402	-12304.9805	1.7	-720	155	254	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:18
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4917.7402	-12304.9805	1.3	-720	155	260	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:18
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4917.7402	-12304.9805	1.3	-720	155	260	Under way using engine	5	10.208.34.241.9040	3/17/2019 8:18
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4917.7402	-12304.9805	1.2	-720	156	266	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:18
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4917.7402	-12304.9805	1.1	-720	159	266	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:18
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4917.7402	-12304.9805	1.1	-720	159	266	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:18
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4917.7329	-12304.9756	0.9	-720	164	270	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:18
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4917.73	-12304.9805	1	-720	155	272	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:18
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4917.73	-12304.9805	0.8	-720	159	273	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:18
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4917.73	-12304.9697	1	0	164	273	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:18
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4917.73	-12304.9697	0.4	-720	130	272	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:18
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4917.73	-12304.9697	0.8	0	153	272	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:18
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4917.73	-12304.9697	0.9	-720	126	272	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:18
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4917.73	-12304.9697	0.9	-720	115	275	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:19
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4917.73	-12304.9697	1	0	156	275	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:19
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4917.73	-12304.9697	0.7	0	147	274	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:19
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4917.73	-12304.9697	0.6	0	145	274	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:19
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4917.73	-12304.9697	0.5	0	130	274	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:19
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4917.73	-12304.9697	0.7	-720	145	273	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:19
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4917.73	-12304.9697	0.5	-720	109	271	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:19
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4917.73	-12304.9697	0.9	-720	136	269	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:19
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4917.73	-12304.9697	0.5	-720	123	269	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:19
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4917.73	-12304.9697	0.6	0	156	269	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:19
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4917.73	-12304.9697	0.7	0	118	268	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:19
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4917.73	-12304.9697	0.8	-720	153	268	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:19
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4917.73	-12304.9697	0.6	-720	140	267	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:19
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4917.73	-12304.9697	0.7	-720	142	266	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:19
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4917.73	-12304.9697	0.7	-720	136	265	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:19
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4917.73	-12304.9697	0.7	-720	146	265	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:19
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4917.73	-12304.9697	0.5	-720	115	264	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:20
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4917.73	-12304.9697	0.7	-720	151	263	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:20
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4917.73	-12304.9697	0.5	-720	128	262	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:20
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4917.73	-12304.9697	0.4	-720	115	260	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:20
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4917.73	-12304.9697	0.4	-720	141	257	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:20
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4917.73	-12304.9697	0.7	-720	70	254	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:20
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4917.73	-12304.9697	0.7	-720	143	249	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:20
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4917.73	-12304.9697	0.3	-720	17	243	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:20
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN			4917.73	-12304.9697	0.3	-720	83	238	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:20

ATON type	Class	Type of ship	IMO	MMSI	Call sign	Name	Destination	Latitude (DDMM.mmmm)	Longitude (DDMM.mmmm)	SOG (knts)	ROT (deg/min)	COG (deg)	True heading	Navigational status	Msg type	Port	Date time stamp
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.7202	-12304.96	0.2	-720	163	233	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:20
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.7202	-12304.96	0.4	-720	154	228	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:20
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.7202	-12304.96	0.9	-720	149	225	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:20
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.7202	-12304.96	0.4	-720	157	223	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:20
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.7202	-12304.96	0.7	-720	166	222	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:20
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.71	-12304.9502	0.5	-720	167	220	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:21
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.71	-12304.9502	0.9	-720	154	221	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:21
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.71	-12304.9502	0.5	-720	167	220	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:21
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.71	-12304.9502	0.9	-720	152	222	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:21
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.71	-12304.9502	0.6	-720	150	222	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:21
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.71	-12304.9502	0.8	-720	144	221	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:21
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.7095	-12304.9512	0.6	-720	149	224	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:21
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.71	-12304.9502	1.3	-720	147	227	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:21
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.71	-12304.9502	1.3	-720	154	233	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:21
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.71	-12304.9502	1.4	-720	151	238	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:21
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.71	-12304.9502	1.2	-720	155	245	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:21
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.7002	-12304.9502	1.1	-720	155	250	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:21
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.7002	-12304.9502	0.9	-720	168	258	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:21
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.7002	-12304.9502	1.1	-720	167	261	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:21
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.7002	-12304.9502	0.9	-720	165	264	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:21
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.7002	-12304.9404	0.8	-720	153	269	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:21
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.7002	-12304.9404	0.6	-720	149	273	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:22
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.7002	-12304.9404	0.9	-720	146	277	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:22
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.7002	-12304.9404	0.6	-720	137	278	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:22
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.7002	-12304.9404	0.6	-720	128	277	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:22
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.7002	-12304.9404	0.5	-720	126	274	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:22
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.7002	-12304.9404	0.5	-720	118	271	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:22
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.7002	-12304.9404	0.5	-720	135	269	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:22
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.7002	-12304.9404	0.4	-720	116	265	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:22
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.7002	-12304.9404	0.4	-720	143	262	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:22
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.7002	-12304.9404	0.4	-720	120	260	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:22
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.7002	-12304.9404	0.5	-720	138	257	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:22
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.7002	-12304.9404	0.5	-720	147	255	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:22
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.7002	-12304.9404	0.6	-720	165	252	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:22
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.6899	-12304.9404	0.6	-720	181	249	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:22
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.6899	-12304.9404	0.5	-720	174	247	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:22
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.6899	-12304.9375	0.8	-720	174	246	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:22
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.6899	-12304.9404	0.7	-720	163	245	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:22
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.6899	-12304.9404	0.8	-720	171	245	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:22
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.6899	-12304.9404	0.9	-720	178	246	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:22
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.6899	-12304.9404	0.8	-720	175	245	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:23
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.6899	-12304.9404	0.9	-720	178	245	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:23

ATON type	Class	Type of ship	IMO	MMSI	Call sign	Name	Destination	Latitude (DDMM.mmmmm)	Longitude (DDMM.mmmmm)	SOG (knts)	ROT (deg/min)	COG (deg)	True heading	Navigational status	Msg type	Port	Date time stamp
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.6899	-12304.9404	0.9	0	180	246	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:23
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.6899	-12304.9404	0.9	-720	183	247	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:23
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.6899	-12304.9404	0.9	0	184	247	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:23
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.6899	-12304.9404	0.9	0	186	247	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:23
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.6899	-12304.9404	0.9	0	188	247	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:23
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.6899	-12304.9404	0.9	0	193	247	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:23
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.6899	-12304.9404	0.9	0	191	247	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:23
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.6899	-12304.9404	0.9	0	182	247	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:23
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.6899	-12304.9404	0.9	0	187	248	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:23
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.6899	-12304.9404	1	-720	188	249	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:23
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.6899	-12304.9404	1	-720	192	250	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:23
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.6899	-12304.9404	1.1	-720	194	251	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:23
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.6899	-12304.9404	1.1	-720	192	251	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:23
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.6899	-12304.9404	1.2	0	194	252	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:23
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.6899	-12304.9404	1.1	0	193	252	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:24
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.6899	-12304.9404	1.2	-720	192	256	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:24
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.6899	-12304.9414	1.1	-720	201	258	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:24
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.6899	-12304.9404	1	-720	202	259	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:24
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.6899	-12304.9404	1	-720	197	260	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:24
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.6899	-12304.9404	1.1	-720	199	261	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:24
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.6899	-12304.9443	1.1	-720	201	262	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:24
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.6899	-12304.9404	1.1	-720	201	262	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:24
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.6899	-12304.9404	1.1	-720	199	263	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:24
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.6899	-12304.9453	1.2	-720	204	267	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:24
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.6899	-12304.9502	0.9	-720	203	268	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:24
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.6899	-12304.9502	1	-720	197	268	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:24
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.6899	-12304.9502	1	-720	200	269	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:24
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.6899	-12304.9502	1.5	-720	201	272	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:25
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.6899	-12304.9502	1.8	-720	209	278	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:25
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.6899	-12304.9502	2.1	-720	210	283	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:25
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.6899	-12304.9502	1.5	-720	220	292	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:25
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.6899	-12304.9502	1.7	-720	221	298	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:25
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.6899	-12304.96	1.4	-720	221	302	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:25
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.6899	-12304.96	1	-720	227	304	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:25
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.6899	-12304.96	0.3	-720	235	307	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:25
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.6899	-12304.96	1.3	-720	227	311	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:25
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.6899	-12304.96	0.5	-720	220	313	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:25
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.6899	-12304.96	0.6	-720	218	314	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:25
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.6899	-12304.96	0.7	-720	204	315	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:25
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.6899	-12304.96	0.2	-720	125	314	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:25
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.6899	-12304.959	0.7	-720	206	312	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:25

ATON type	Class	Type of ship	MMSI	IMO	Name	Destination	Latitude (DDMM.mmmmm)	Longitude (DDMM.mmmmm)	SOG (knots)	ROT (deg)	COG (deg)	True heading	Mmsg type	Date time stamp
Unknown	CA	Tug	316018851	9432957	SEASPN RAYEN		4917.6599	-12304.96	0.6	0	-720	87	308 Under way using engine	3/17/2019 8:25
Unknown	CA	Tug	316018851	9432957	SEASPN RAYEN		4917.6599	-12304.96	0.3	0	-720	88	308 Under way using engine	3/17/2019 8:25
Unknown	CA	Tug	316018851	9432957	SEASPN RAYEN		4917.6599	-12304.96	0.7	0	-720	89	308 Under way using engine	3/17/2019 8:25
Unknown	CA	Tug	316018851	9432957	SEASPN RAYEN		4917.6599	-12304.96	0.3	0	-720	90	308 Under way using engine	3/17/2019 8:25
Unknown	CA	Tug	316018851	9432957	SEASPN RAYEN		4917.6599	-12304.96	0.3	0	-720	91	308 Under way using engine	3/17/2019 8:25
Unknown	CA	Tug	316018851	9432957	SEASPN RAYEN		4917.6599	-12304.96	0.3	0	-720	92	308 Under way using engine	3/17/2019 8:25
Unknown	CA	Tug	316018851	9432957	SEASPN RAYEN		4917.6599	-12304.96	0.3	0	-720	93	308 Under way using engine	3/17/2019 8:25
Unknown	CA	Tug	316018851	9432957	SEASPN RAYEN		4917.6599	-12304.96	0.3	0	-720	94	308 Under way using engine	3/17/2019 8:25
Unknown	CA	Tug	316018851	9432957	SEASPN RAYEN		4917.6599	-12304.96	0.3	0	-720	95	308 Under way using engine	3/17/2019 8:25
Unknown	CA	Tug	316018851	9432957	SEASPN RAYEN		4917.6599	-12304.96	0.3	0	-720	96	308 Under way using engine	3/17/2019 8:25
Unknown	CA	Tug	316018851	9432957	SEASPN RAYEN		4917.6599	-12304.96	0.3	0	-720	97	308 Under way using engine	3/17/2019 8:25
Unknown	CA	Tug	316018851	9432957	SEASPN RAYEN		4917.6599	-12304.96	0.3	0	-720	98	308 Under way using engine	3/17/2019 8:25
Unknown	CA	Tug	316018851	9432957	SEASPN RAYEN		4917.6599	-12304.96	0.3	0	-720	99	308 Under way using engine	3/17/2019 8:25
Unknown	CA	Tug	316018851	9432957	SEASPN RAYEN		4917.6599	-12304.96	0.3	0	-720	100	308 Under way using engine	3/17/2019 8:25
Unknown	CA	Tug	316018851	9432957	SEASPN RAYEN		4917.6599	-12304.96	0.3	0	-720	101	308 Under way using engine	3/17/2019 8:25
Unknown	CA	Tug	316018851	9432957	SEASPN RAYEN		4917.6599	-12304.96	0.3	0	-720	102	308 Under way using engine	3/17/2019 8:25
Unknown	CA	Tug	316018851	9432957	SEASPN RAYEN		4917.6599	-12304.96	0.3	0	-720	103	308 Under way using engine	3/17/2019 8:25
Unknown	CA	Tug	316018851	9432957	SEASPN RAYEN		4917.6599	-12304.96	0.3	0	-720	104	308 Under way using engine	3/17/2019 8:25
Unknown	CA	Tug	316018851	9432957	SEASPN RAYEN		4917.6599	-12304.96	0.3	0	-720	105	308 Under way using engine	3/17/2019 8:25
Unknown	CA	Tug	316018851	9432957	SEASPN RAYEN		4917.6599	-12304.96	0.3	0	-720	106	308 Under way using engine	3/17/2019 8:25
Unknown	CA	Tug	316018851	9432957	SEASPN RAYEN		4917.6599	-12304.96	0.3	0	-720	107	308 Under way using engine	3/17/2019 8:25
Unknown	CA	Tug	316018851	9432957	SEASPN RAYEN		4917.6599	-12304.96	0.3	0	-720	108	308 Under way using engine	3/17/2019 8:25
Unknown	CA	Tug	316018851	9432957	SEASPN RAYEN		4917.6599	-12304.96	0.3	0	-720	109	308 Under way using engine	3/17/2019 8:25
Unknown	CA	Tug	316018851	9432957	SEASPN RAYEN		4917.6599	-12304.96	0.3	0	-720	110	308 Under way using engine	3/17/2019 8:25
Unknown	CA	Tug	316018851	9432957	SEASPN RAYEN		4917.6599	-12304.96	0.3	0	-720	111	308 Under way using engine	3/17/2019 8:25
Unknown	CA	Tug	316018851	9432957	SEASPN RAYEN		4917.6599	-12304.96	0.3	0	-720	112	308 Under way using engine	3/17/2019 8:25
Unknown	CA	Tug	31601885											

ATON type	Class	Type of ship	MMSI	IMO	number	Call sign	Name	Destination	Latitude (DDMM.mmmmm)	Longitude (DDMM.mmmmm)	SOC (deg/rot)	COG (deg)	Heading (True)	Navigation status	Msg type	Port	Date time stamp
Unknown	CA	Tug	316018851	9432957	CFM6643	SEASPAN RAYEN	4917.6299	-12304.9805	1.1	-720	173	173	326	Under way using engine	3	10.208.34.241.9040	3/17/2019.8:28
Unknown	CA	Tug	316018851	9432957	CFM6643	SEASPAN RAYEN	4917.6299	-12304.9805	1.1	-720	173	173	335	Under way using engine	3	10.208.34.241.9040	3/17/2019.8:28
Unknown	CA	Tug	316018851	9432957	CFM6643	SEASPAN RAYEN	4917.6299	-12304.9805	1.1	-720	146	146	346	Under way using engine	3	10.208.34.241.9040	3/17/2019.8:28
Unknown	CA	Tug	316018851	9432957	CFM6643	SEASPAN RAYEN	4917.6299	-12304.9805	1.1	-720	138	138	346	Under way using engine	3	10.208.34.241.9040	3/17/2019.8:28
Unknown	CA	Tug	316018851	9432957	CFM6643	SEASPAN RAYEN	4917.6299	-12304.9805	1.1	-720	146	146	346	Under way using engine	3	10.208.34.241.9040	3/17/2019.8:28
Unknown	CA	Tug	316018851	9432957	CFM6643	SEASPAN RAYEN	4917.6299	-12304.9805	1.1	-720	144	144	346	Under way using engine	3	10.208.34.241.9040	3/17/2019.8:28
Unknown	CA	Tug	316018851	9432957	CFM6643	SEASPAN RAYEN	4917.6299	-12304.9805	1.1	-720	157	157	342	Under way using engine	3	10.208.34.241.9040	3/17/2019.8:28
Unknown	CA	Tug	316018851	9432957	CFM6643	SEASPAN RAYEN	4917.6299	-12304.9805	1.1	-720	147	147	342	Under way using engine	3	10.208.34.241.9040	3/17/2019.8:28
Unknown	CA	Tug	316018851	9432957	CFM6643	SEASPAN RAYEN	4917.6299	-12304.9805	1.3	-740	153	153	338	Under way using engine	3	10.208.34.241.9040	3/17/2019.8:28
Unknown	CA	Tug	316018851	9432957	CFM6643	SEASPAN RAYEN	4917.6299	-12304.9805	1.3	-740	147	147	338	Under way using engine	3	10.208.34.241.9040	3/17/2019.8:28
Unknown	CA	Tug	316018851	9432957	CFM6643	SEASPAN RAYEN	4917.6299	-12304.9805	1.1	-720	173	173	335	Under way using engine	3	10.208.34.241.9040	3/17/2019.8:28
Unknown	CA	Tug	316018851	9432957	CFM6643	SEASPAN RAYEN	4917.6299	-12304.9805	1.1	-720	173	173	326	Under way using engine	3	10.208.34.241.9040	3/17/2019.8:28
Unknown	CA	Tug	316018851	9432957	CFM6643	SEASPAN RAYEN	4917.6299	-12304.9805	1.1	-720	173	173	335	Under way using engine	3	10.208.34.241.9040	3/17/2019.8:28
Unknown	CA	Tug	316018851	9432957	CFM6643	SEASPAN RAYEN	4917.6299	-12304.9805	1.1	-720	173	173	326	Under way using engine	3	10.208.34.241.9040	3/17/2019.8:28
Unknown	CA	Tug	316018851	9432957	CFM6643	SEASPAN RAYEN	4917.6299	-12304.9805	1.1	-720	173	173	335	Under way using engine	3	10.208.34.241.9040	3/17/2019.8:28
Unknown	CA	Tug	316018851	9432957	CFM6643	SEASPAN RAYEN	4917.6299	-12304.9805	1.1	-720	173	173	326	Under way using engine	3	10.208.34.241.9040	3/17/2019.8:28
Unknown	CA	Tug	316018851	9432957	CFM6643	SEASPAN RAYEN	4917.6299	-12304.9805	1.1	-720	173	173	335	Under way using engine	3	10.208.34.241.9040	3/17/2019.8:28
Unknown	CA	Tug	316018851	9432957	CFM6643	SEASPAN RAYEN	4917.6299	-12304.9805	1.1	-720	173	173	326	Under way using engine	3	10.208.34.241.9040	3/17/2019.8:28
Unknown	CA	Tug	316018851	9432957	CFM6643	SEASPAN RAYEN	4917.6299	-12304.9805	1.1	-720	173	173	335	Under way using engine	3	10.208.34.241.9040	3/17/2019.8:28
Unknown	CA	Tug	316018851	9432957	CFM6643	SEASPAN RAYEN	4917.6299	-12304.9805	1.1	-720	173	173	326	Under way using engine	3	10.208.34.241.9040	3/17/2019.8:28
Unknown	CA	Tug	316018851														

ATON type	Class	Type of ship	IMO	MMSI	Call sign	Name	Destination	Latitude (DDMM.mmm)	Longitude (DDMM.mmm)	SOG (knts)	ROT (deg/min)	COG (deg)	True heading	Navigational status	Msg type	Port	Date time stamp
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.6699	-12304.8496	6.4	-720	16	1	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:30
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.6802	-12304.8398	6.7	-720	10	352	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:31
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.6899	-12304.8398	6.9	-720	337	3	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:31
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.7002	-12304.8398	7.5	-720	22	9	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:31
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.71	-12304.8398	7	-720	13	8	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:31
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.7202	-12304.8301	7.1	0	15	7	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:31
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.73	-12304.8301	7.1	-720	14	7	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:31
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.7402	-12304.8301	7.1	-720	13	6	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:31
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.75	-12304.8203	6.9	-720	10	358	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:31
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.7598	-12304.8203	6.8	-720	4	347	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:31
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.7798	-12304.8301	6.4	-720	343	333	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:31
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.7998	-12304.8301	6.4	0	344	333	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:32
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.7998	-12304.8301	6.5	-720	342	332	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:32
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.8101	-12304.8398	6.6	-720	342	331	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:32
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.8198	-12304.8496	6.4	-720	339	329	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:32
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.8398	-12304.8604	6.2	-720	337	327	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:32
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.8599	-12304.8701	5.9	-720	341	337	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:32
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.8799	-12304.8799	6	-720	346	342	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:32
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.8901	-12304.8799	6.1	-720	349	347	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:33
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.8999	-12304.8799	6.1	-720	350	349	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:33
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.9102	-12304.8896	6.1	-720	353	352	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:33
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.915	-12304.8887	6	-720	353	351	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:33
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.9199	-12304.8896	5.9	-720	359	347	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:33
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.9248	-12304.8896	5.8	-720	355	340	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:33
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.9302	-12304.8896	5.8	-720	347	328	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:33
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.9399	-12304.8896	5.6	-720	334	322	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:33
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4917.9399	-12304.9004	5.7	-720	329	316	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:33



ATON type	Class	Type of ship	IMO	MMSI	Call sign	Name	Destination	Latitude (DDMM.mmmm)	Longitude (DDMM.mmmm)	SOG (knts)	ROT (deg/min)	COG (deg)	True heading	Navigational status	Msg type	Port	Date time stamp
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.0771	-12305.3066	5.8	-720	290	291	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:36
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.0801	-12305.3096	6	0	291	290	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:36
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.0801	-12305.3203	6	0	290	290	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:36
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.0801	-12305.3011	5.9	0	289	290	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:36
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.0801	-12305.3398	5.9	0	290	290	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:36
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.0898	-12305.3398	5.9	-720	288	287	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:36
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.0898	-12305.3496	5.7	-720	287	291	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:36
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.0898	-12305.3701	5.1	-720	289	295	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:36
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.0898	-12305.3799	4.5	-720	290	298	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:36
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1001	-12305.3799	4.2	0	295	298	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:36
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1001	-12305.3896	4	0	293	298	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:36
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1001	-12305.3986	3.9	0	292	298	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:37
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1001	-12305.4004	3.7	0	297	299	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:37
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1001	-12305.4102	3.3	-720	292	300	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:37
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1001	-12305.4102	3.1	-720	291	302	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:37
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1045	-12305.417	3.1	-720	300	296	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:37
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1099	-12305.4199	3.2	-720	283	295	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:37
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1099	-12305.4199	3.2	-720	301	292	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:37
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1099	-12305.4297	3.3	-720	291	291	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:37
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1099	-12305.4404	3.3	-720	299	289	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:37
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1099	-12305.4502	3.5	-720	287	294	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:37
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1099	-12305.46	3.2	-720	288	297	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:37
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.4697	2.6	-720	290	300	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:37
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.4697	2.4	-720	290	300	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:38
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.4805	1.8	-720	304	297	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:38
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.4805	1.6	-720	271	295	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:38
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.4805	1.3	0	306	295	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:38
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.4902	1.3	0	270	296	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:38
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1196	-12305.4863	1.1	-720	284	296	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:38
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.4902	1.1	-720	274	299	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:38
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.4902	1	-720	258	301	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:38
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.4902	1.1	-720	257	303	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:38
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.4902	0.8	-720	282	306	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:38
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.4902	0.9	-720	259	309	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:38
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.5	0.7	-720	269	309	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:38
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.5	0.7	0	265	310	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:38
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.5	0.7	0	265	310	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:38



ATON type	Class	Type of ship	MMSI	IMO	Name	Destination	Latitude (DDMM.mmmmm)	Longitude (DDMM.mmmmm)	SOG (deg/min)	ROT (deg/min)	COG (deg)	True heading	Navigation status	Mmsg type	Port	Date time stamp
Unknown	CA	Tug	316018851	9432957	SEASPA N AVEEN	4918 1201	-12305 5	0.1	-720	270	260	308	Under way using engine	3	0 10:08.3, 241.1:3040	3/17/2019 8:38
Unknown	CA	Tug	316018851	9432957	SEASPA N AVEEN	4918 1201	-12305 5	0.1	-720	270	260	308	Under way using engine	3	0 10:08.3, 241.1:3040	3/17/2019 8:38
Unknown	CA	Tug	316018851	9432957	SEASPA N AVEEN	4918 1201	-12305 5	0.1	-720	270	260	308	Under way using engine	3	0 10:08.3, 241.1:3040	3/17/2019 8:38
Unknown	CA	Tug	316018851	9432957	SEASPA N AVEEN	4918 1201	-12305 5	0.1	-720	270	260	308	Under way using engine	3	0 10:08.3, 241.1:3040	3/17/2019 8:38
Unknown	CA	Tug	316018851	9432957	SEASPA N AVEEN	4918 1201	-12305 5	0.1	-720	270	260	308	Under way using engine	3	0 10:08.3, 241.1:3040	3/17/2019 8:38
Unknown	CA	Tug	316018851	9432957	SEASPA N AVEEN	4918 1201	-12305 5	0.1	-720	270	260	308	Under way using engine	3	0 10:08.3, 241.1:3040	3/17/2019 8:38
Unknown	CA	Tug	316018851	9432957	SEASPA N AVEEN	4918 1201	-12305 5	0.1	-720	270	260	308	Under way using engine	3	0 10:08.3, 241.1:3040	3/17/2019 8:38
Unknown	CA	Tug	316018851	9432957	SEASPA N AVEEN	4918 1201	-12305 5	0.1	-720	270	260	308	Under way using engine	3	0 10:08.3, 241.1:3040	3/17/2019 8:38
Unknown	CA	Tug	316018851	9432957	SEASPA N AVEEN	4918 1201	-12305 5	0.1	-720	270	260	308	Under way using engine	3	0 10:08.3, 241.1:3040	3/17/2019 8:38
Unknown	CA	Tug	316018851	9432957	SEASPA N AVEEN	4918 1201	-12305 5	0.1	-720	270	260	308	Under way using engine	3	0 10:08.3, 241.1:3040	3/17/2019 8:38
Unknown	CA	Tug	316018851	9432957	SEASPA N AVEEN	4918 1201	-12305 5	0.1	-720	270	260	308	Under way using engine	3	0 10:08.3, 241.1:3040	3/17/2019 8:38
Unknown	CA	Tug	316018851	9432957	SEASPA N AVEEN	4918 1201	-12305 5	0.1	-720	270	260	308	Under way using engine	3	0 10:08.3, 241.1:3040	3/17/2019 8:38
Unknown	CA	Tug	316018851	9432957	SEASPA N AVEEN	4918 1201	-12305 5	0.1	-720	270	260	308	Under way using engine	3	0 10:08.3, 241.1:3040	3/17/2019 8:38
Unknown	CA	Tug	316018851	9432957	SEASPA N AVEEN	4918 1201	-12305 5	0.1	-720	270	260	308	Under way using engine	3	0 10:08.3, 241.1:3040	3/17/2019 8:38
Unknown	CA	Tug	316018851	9432957	SEASPA N AVEEN	4918 1201	-12305 5	0.1	-720	270	260	308	Under way using engine	3	0 10:08.3, 241.1:3040	3/17/2019 8:38
Unknown	CA	Tug	316018851	9432957	SEASPA N AVEEN	4918 1201	-12305 5	0.1	-720	270	260	308	Under way using engine	3	0 10:08.3, 241.1:3040	3/17/2019 8:38
Unknown	CA	Tug	316018851	9432957	SEASPA N AVEEN	4918 1201	-12305 5	0.1	-720	270	260	308	Under way using engine	3	0 10:08.3, 241.1:3040	3/17/2019 8:38
Unknown	CA	Tug	316018851	9432957	SEASPA N AVEEN	4918 1201	-12305 5	0.1	-720	270	260	308	Under way using engine	3	0 10:08.3, 241.1:3040	3/17/2019 8:38
Unknown	CA	Tug	316018851	9432957	SEASPA N AVEEN	4918 1201	-12305 5	0.1	-720	270	260	308	Under way using engine	3	0 10:08.3, 241.1:3040	3/17/2019 8:38
Unknown	CA	Tug	316018851	9432957	SEASPA N AVEEN	4918 1201	-12305 5	0.1	-720	270	260	308	Under way using engine	3	0 10:08.3, 241.1:3040	3/17/2019 8:38
Unknown	CA	Tug	316018851	9432957	SEASPA N AVEEN	4918 1201	-12305 5	0.1	-720	270	260	308	Under way using engine	3	0 10:08.3, 241.1:3040	3/17/2019 8:38
Unknown	CA	Tug	3160188													

ATON type	Class	Type of ship	MMSI	IMO	number	Call sign	Name	Destination	Latitude (DDMM.mmmm)	Longitude (DDMM.mmmm)	SOG (knts)	ROT (deg/min)	COG (deg)	True heading	Navigational status	Msg type	Port	Date time stamp
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.1201	-12305.5303	0.3	-720	113	273	Under way using engine		3 10 208.34.241.9040	3/17/2019 8:41
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.1172	-12305.5293	0.3	-720	267	Under way using engine		3 10 208.34.241.9040	3/17/2019 8:41	
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.1201	-12305.5303	0.4	-720	350	Under way using engine		3 10 208.34.241.9040	3/17/2019 8:41	
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.1201	-12305.5303	2	-720	281	Under way using engine		3 10 208.34.241.9040	3/17/2019 8:41	
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.1201	-12305.54	4	-720	229	Under way using engine		3 10 208.34.241.9040	3/17/2019 8:41	
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.1099	-12305.5498	4.8	-720	236	Under way using engine		3 10 208.34.241.9040	3/17/2019 8:41	
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.1099	-12305.5498	5.2	-720	252	Under way using engine		3 10 208.34.241.9040	3/17/2019 8:41	
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.1099	-12305.5596	5.6	-720	247	Under way using engine		3 10 208.34.241.9040	3/17/2019 8:41	
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.1099	-12305.5703	6	-720	258	Under way using engine		3 10 208.34.241.9040	3/17/2019 8:41	
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.1099	-12305.5801	6.1	-720	255	Under way using engine		3 10 208.34.241.9040	3/17/2019 8:41	
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.1001	-12305.5898	6.8	-720	261	Under way using engine		3 10 208.34.241.9040	3/17/2019 8:42	
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.1001	-12305.6104	7	-720	265	Under way using engine		3 10 208.34.241.9040	3/17/2019 8:42	
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.1001	-12305.6201	7	-720	268	Under way using engine		3 10 208.34.241.9040	3/17/2019 8:42	
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.1045	-12305.6367	7.4	-720	283	Under way using engine		3 10 208.34.241.9040	3/17/2019 8:42	
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.1099	-12305.6504	7.5	-720	282	Under way using engine		3 10 208.34.241.9040	3/17/2019 8:42	
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.1099	-12305.6602	7.8	-720	292	Under way using engine		3 10 208.34.241.9040	3/17/2019 8:42	
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.1152	-12305.6738	7.2	-720	305	Under way using engine		3 10 208.34.241.9040	3/17/2019 8:42	
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.1201	-12305.6797	7.1	-720	318	Under way using engine		3 10 208.34.241.9040	3/17/2019 8:42	
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.1299	-12305.6797	5.7	-720	349	Under way using engine		3 10 208.34.241.9040	3/17/2019 8:42	
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.1299	-12305.6797	5	-720	2	Under way using engine		3 10 208.34.241.9040	3/17/2019 8:42	
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.1299	-12305.6797	5	-720	357	Under way using engine		3 10 208.34.241.9040	3/17/2019 8:42	
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.1392	-12305.6816	4.8	-720	7	Under way using engine		3 10 208.34.241.9040	3/17/2019 8:42	
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.1401	-12305.6797	4.5	-720	9	Under way using engine		3 10 208.34.241.9040	3/17/2019 8:42	
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.1499	-12305.6797	4.5	-720	18	Under way using engine		3 10 208.34.241.9040	3/17/2019 8:42	
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.1499	-12305.6797	4.4	-720	29	Under way using engine		3 10 208.34.241.9040	3/17/2019 8:42	
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.1543	-12305.6729	4.3	-720	29	Under way using engine		3 10 208.34.241.9040	3/17/2019 8:43	
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.1602	-12305.6699	4.2	-720	45	Under way using engine		3 10 208.34.241.9040	3/17/2019 8:43	
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.1602	-12305.6602	3.9	-720	57	Under way using engine		3 10 208.34.241.9040	3/17/2019 8:43	
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.1602	-12305.6504	3.7	-720	72	Under way using engine		3 10 208.34.241.9040	3/17/2019 8:43	
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.1626	-12305.6494	3.4	-720	79	Under way using engine		3 10 208.34.241.9040	3/17/2019 8:43	
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.1602	-12305.6396	3.6	-720	83	Under way using engine		3 10 208.34.241.9040	3/17/2019 8:43	
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.1602	-12305.6299	3.5	-720	78	Under way using engine		3 10 208.34.241.9040	3/17/2019 8:43	
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.1602	-12305.6299	3.6	-720	84	Under way using engine		3 10 208.34.241.9040	3/17/2019 8:43	
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.1602	-12305.6299	3.5	-720	86	Under way using engine		3 10 208.34.241.9040	3/17/2019 8:43	
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.1602	-12305.6201	3.5	-720	92	Under way using engine		3 10 208.34.241.9040	3/17/2019 8:43	
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.1602	-12305.6104	3.2	-720	91	Under way using engine		3 10 208.34.241.9040	3/17/2019 8:43	
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.1602	-12305.6104	2.8	-720	86	Under way using engine		3 10 208.34.241.9040	3/17/2019 8:43	
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.1602	-12305.6040	2.3	-720	90	Under way using engine		3 10 208.34.241.9040	3/17/2019 8:43	
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAW RAVEN			4918.1602	-12305.5940	2.2	-720	92	Under way using engine		3 10 208.34.241.9040	3/17/2019 8:43	



ATN type	Class	Type of ship	MMSI	IMO	Number	Call sign	Name	Destination	Latitude (DDMM.mmmmm)	Longitude (DDMM.mmmmm)	Altitude (m)	ROT (deg)	COC (deg)	True heading	Navigational status	Msg type	Port	Date time stamp
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAYEN	4918.1602	-12305.5073	0.4	-720	91	0	-720	147	Under way using engine	147	3108.34.241.9040	3/17/2019 8:46
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAYEN	4918.1602	-12305.5073	0.4	-720	90	0	-720	144	Under way using engine	144	3108.34.241.9040	3/17/2019 8:46
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAYEN	4918.1602	-12305.5073	0.4	-720	90	0	-720	147	Under way using engine	147	3108.34.241.9040	3/17/2019 8:46
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAYEN	4918.1602	-12305.5073	0.4	-720	90	0	-720	147	Under way using engine	147	3108.34.241.9040	3/17/2019 8:46
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAYEN	4918.1602	-12305.5073	0.4	-720	90	0	-720	147	Under way using engine	147	3108.34.241.9040	3/17/2019 8:46
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAYEN	4918.1602	-12305.5073	0.4	-720	90	0	-720	147	Under way using engine	147	3108.34.241.9040	3/17/2019 8:46
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAYEN	4918.1602	-12305.5073	0.4	-720	90	0	-720	147	Under way using engine	147	3108.34.241.9040	3/17/2019 8:46
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAYEN	4918.1602	-12305.5073	0.4	-720	90	0	-720	147	Under way using engine	147	3108.34.241.9040	3/17/2019 8:46
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAYEN	4918.1602	-12305.5073	0.4	-720	90	0	-720	147	Under way using engine	147	3108.34.241.9040	3/17/2019 8:46
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAYEN	4918.1602	-12305.5073	0.4	-720	90	0	-720	147	Under way using engine	147	3108.34.241.9040	3/17/2019 8:46
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAYEN	4918.1602	-12305.5073	0.4	-720	90	0	-720	147	Under way using engine	147	3108.34.241.9040	3/17/2019 8:46
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAYEN	4918.1602	-12305.5073	0.4	-720	90	0	-720	147	Under way using engine	147	3108.34.241.9040	3/17/2019 8:46
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAYEN	4918.1602	-12305.5073	0.4	-720	90	0	-720	147	Under way using engine	147	3108.34.241.9040	3/17/2019 8:46
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAYEN	4918.1602	-12305.5073	0.4	-720	90	0	-720	147	Under way using engine	147	3108.34.241.9040	3/17/2019 8:46
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAYEN	4918.1602	-12305.5073	0.4	-720	90	0	-720	147	Under way using engine	147	3108.34.241.9040	3/17/2019 8:46
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAYEN	4918.1602	-12305.5073	0.4	-720	90	0	-720	147	Under way using engine	147	3108.34.241.9040	3/17/2019 8:46
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAYEN	4918.1602	-12305.5073	0.4	-720	90	0	-720	147	Under way using engine	147	3108.34.241.9040	3/17/2019 8:46
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAYEN	4918.1602	-12305.5073	0.4	-720	90	0	-720	147	Under way using engine	147	3108.34.241.9040	3/17/2019 8:46
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAYEN	4918.1602	-12305.5073	0.4	-720	90	0	-720	147	Under way using engine	147	3108.34.241.9040	3/17/2019 8:46
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAYEN	4918.1602	-12305.5073										

ATON type	Class	Type of ship	IMO	MMSI	Call sign	Name	Destination	Latitude (DDMM.mmmm)	Longitude (DDMM.mmmm)	SOG (knts)	ROT (deg/min)	COG (deg)	True heading	Navigational status	Msg type	Port	Date time stamp
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.5703	0.8	-720	258	146	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:49
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.5703	0.9	-720	9	148	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:49
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.5703	1.7	-720	340	156	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:49
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.5703	1.7	-720	352	168	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:49
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.5703	1.6	-720	28	175	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:49
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.5703	1.7	-720	25	190	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:49
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.5703	1.7	-720	350	200	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:49
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.5703	2.1	-720	85	216	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:49
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.5703	0.6	-720	282	226	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:49
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.5703	0.8	-720	251	231	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:49
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.5703	1.9	-720	201	241	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:50
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.5703	2.5	-720	230	246	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:50
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.5801	3.6	-720	241	249	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:50
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.5801	4.4	-720	250	253	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:50
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.5801	4.8	-720	244	256	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:50
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.5801	5.1	-720	257	254	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:50
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.5801	5.3	-720	257	250	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:50
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.5801	5.8	-720	252	246	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:50
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.5801	6	-720	250	243	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:50
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.5801	5.9	-720	245	237	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:50
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.5801	5.9	-720	243	232	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:50
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.5801	5.6	-720	241	227	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:50
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.5801	5.4	-720	233	207	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:50
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.5801	5.5	-720	214	197	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:50
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.5801	5.2	-720	209	186	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:50
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.5801	5.1	-720	197	175	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:50
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.5801	4.9	-720	189	167	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:50
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.5801	4.5	-720	177	158	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:51
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.5801	4.4	-720	172	149	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:51
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.5801	4.5	-720	166	138	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:51
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.5801	5.1	-720	157	127	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:51
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.5801	4.5	-720	148	117	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:51
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.5801	4.4	-720	137	106	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:51
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.5801	4.3	-720	121	99	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:51
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.5801	4.4	-720	112	92	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:51
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.5801	4.2	-720	105	86	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:51
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.5801	4.3	-720	96	80	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:51
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.5801	4.4	-720	93	77	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:51
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.5801	4.2	-720	83	76	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:51
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.5801	4.2	-720	78	73	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:51
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.5801	4.2	-720	78	72	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:51
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.5801	4.2	-720	75	71	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:51
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.5801	4.4	-720	78	70	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:51
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.5801	4.4	-720	71	69	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:51
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.5801	4.2	-720	72	68	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:52

ATON type	Class	Type of ship	IMO	MMSI	Call sign	Name	Destination	Latitude (DDMM.mmmm)	Longitude (DDMM.mmmm)	SOG (knts)	ROT (deg/min)	COG (deg)	True heading	Navigational status	Msg type	Port	Date time stamp
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.0898	-12305.5703	4.3	-720	68	67	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:52
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1001	-12305.5596	4.2	-720	69	65	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:52
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1001	-12305.5596	4.1	-720	66	63	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:52
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1001	-12305.5498	3.8	-720	69	61	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:52
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1001	-12305.5498	3.8	-720	68	59	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:52
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1001	-12305.54	3.6	-720	57	60	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:52
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1001	-12305.54	3.5	-720	61	62	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:52
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1099	-12305.5303	3.4	-720	68	63	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:52
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1099	-12305.5303	3.3	-720	64	63	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:52
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1099	-12305.5195	2.9	-720	66	60	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:52
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1099	-12305.5195	2.9	-720	66	60	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:52
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1099	-12305.5098	2.8	-720	67	50	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:52
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1099	-12305.5098	2.8	-720	67	50	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:52
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.5098	2.3	-720	59	37	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:52
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.5	2.1	-720	85	25	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:52
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.5	0.7	-720	48	11	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:53
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.5	0.8	-720	85	3	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:53
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.5	0.4	-720	3	355	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:53
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.5	0.7	-720	66	348	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:53
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1167	-12305.499	0.3	-720	0	348	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:53
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.5	0.5	-720	69	348	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:53
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.5	0.1	-720	274	348	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:53
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.5	0.1	-720	25	348	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:53
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.5	0.2	-720	241	349	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:53
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.5	0.1	-720	338	349	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:53
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1167	-12305.499	0.3	-720	318	348	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:53
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.5	0.1	-720	13	347	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:53
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.5	0.1	-720	302	347	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:53
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.5	0.1	-720	330	346	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:53
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.5	0.2	-720	7	346	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:53
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.5	0.1	-720	221	346	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:54
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.5	0.1	-720	270	346	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:54
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.5	0.1	-720	326	346	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:54
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.5	0.2	-720	294	346	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:54
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1172	-12305.5	0.1	-720	333	344	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:54
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	VANCOUVER	4918.1172	-12305.5	0.1	-720	333	344	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:54
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.5	0.1	-720	291	344	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:54
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.5	0.2	-720	296	343	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:54
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.5	0.2	-720	322	343	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:54
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.5	0.1	-720	301	343	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:54
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.5	0.2	-720	234	343	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:54
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.5	0.1	-720	295	345	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:54

ATON type	Class	Type of ship	IMO	MMSI	Call sign	Name	Destination	Latitude (DDMM.mmmm)	Longitude (DDMM.mmmm)	SOG (knts)	ROT (deg/min)	COG (deg)	True heading	Navigational status	Msg type	Port	Date time stamp
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.5	0.2	0	313	346	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:54
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.5	0.2	0	337	346	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:54
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.5	0.3	0	306	346	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:54
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.5	0.2	0	300	346	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:54
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.5	0.2	0	286	346	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:55
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.5	0.2	0	306	345	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:55
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.5	0.2	0	307	345	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:55
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.5	0.3	0	343	345	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:55
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.5	0.1	0	337	345	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:55
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.5	0.3	0	319	345	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:55
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.5	0.1	0	297	344	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:55
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.5	0.2	0	297	343	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:55
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.5	0.3	0	66	340	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:55
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.5	0.2	0	121	337	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:55
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.5	0.8	0	200	335	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:55
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.5	0.9	0	177	332	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:55
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1167	-12305.5029	1.1	0	183	322	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:55
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.5	1	0	133	314	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:55
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.5	1	0	146	302	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:55
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.5	0.9	0	93	290	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:55
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1152	-12305.699	0.1	0	27	278	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:55
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.5	0.6	0	269	270	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:55
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.5	1.3	0	259	263	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:56
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1099	-12305.5	1.9	0	261	260	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:56
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1099	-12305.5098	2.6	0	253	258	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:56
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1099	-12305.5098	2.9	0	261	255	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:56
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1099	-12305.5195	3.5	0	255	251	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:56
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1099	-12305.5225	3.9	0	247	249	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:56
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1099	-12305.5303	4.5	0	258	247	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:56
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1099	-12305.54	5	0	249	244	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:56
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1099	-12305.5498	5.2	0	244	246	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:56
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1001	-12305.5596	5.3	0	244	249	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:56
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1001	-12305.5703	5.5	0	245	249	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:56
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1001	-12305.5703	5.6	0	246	252	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:56
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1001	-12305.5801	5.5	0	250	257	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:56
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.0898	-12305.5898	5.6	0	254	261	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:56
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.0898	-12305.5966	5.5	0	253	267	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:56
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.0898	-12305.6104	5.3	0	261	269	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:56
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.0898	-12305.6201	5.3	0	266	273	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:57
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.0898	-12305.6299	5.4	0	267	276	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:57
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.0898	-12305.6396	5.4	0	272	287	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:57

ATON type	Class	Type of ship	IMO	MMSI	Call sign	Name	Destination	Latitude (DDMM.mmmm)	Longitude (DDMM.mmmm)	SOG (knts)	ROT (deg/min)	COG (deg)	True heading	Navigational status	Msg type	Port	Date time stamp	
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.0903	-12305.6504	5.4	-720	279	300	Under way using engine		3	10.208.34.241.9040	3/17/2019 8:57
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1001	-12305.6602	5.2	-720	283	311	Under way using engine		3	10.208.34.241.9040	3/17/2019 8:57
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1084	-12305.6692	4.6	-720	298	322	Under way using engine		3	10.208.34.241.9040	3/17/2019 8:57
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1098	-12305.6692	4.9	-720	306	332	Under way using engine		3	10.208.34.241.9040	3/17/2019 8:57
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1001	-12305.6699	4.3	-720	321	345	Under way using engine		3	10.208.34.241.9040	3/17/2019 8:57
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1001	-12305.6797	4.1	-720	335	354	Under way using engine		3	10.208.34.241.9040	3/17/2019 8:57
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1084	-12305.6797	3.8	-720	348	1	Under way using engine		3	10.208.34.241.9040	3/17/2019 8:57
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1099	-12305.6797	3.6	-720	359	21	Under way using engine		3	10.208.34.241.9040	3/17/2019 8:57
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.6797	3.7	-720	5	28	Under way using engine		3	10.208.34.241.9040	3/17/2019 8:57
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.6797	3.6	-720	13	34	Under way using engine		3	10.208.34.241.9040	3/17/2019 8:57
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1201	-12305.6797	3.6	-720	22	46	Under way using engine		3	10.208.34.241.9040	3/17/2019 8:57
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1297	-12305.6699	3.5	-720	35	53	Under way using engine		3	10.208.34.241.9040	3/17/2019 8:57
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1299	-12305.6699	3.3	-720	47	58	Under way using engine		3	10.208.34.241.9040	3/17/2019 8:57
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1348	-12305.6572	3.2	-720	59	65	Under way using engine		3	10.208.34.241.9040	3/17/2019 8:58
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1367	-12305.6523	3.2	-720	58	72	Under way using engine		3	10.208.34.241.9040	3/17/2019 8:58
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1387	-12305.6445	3.1	-720	69	76	Under way using engine		3	10.208.34.241.9040	3/17/2019 8:58
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1401	-12305.6396	3.2	-720	70	77	Under way using engine		3	10.208.34.241.9040	3/17/2019 8:58
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1401	-12305.6299	2.8	-720	72	83	Under way using engine		3	10.208.34.241.9040	3/17/2019 8:58
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1401	-12305.6201	2.4	-720	75	84	Under way using engine		3	10.208.34.241.9040	3/17/2019 8:58
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1401	-12305.6201	2.3	-720	78	78	Under way using engine		3	10.208.34.241.9040	3/17/2019 8:58
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1401	-12305.6104	2.1	-720	79	76	Under way using engine		3	10.208.34.241.9040	3/17/2019 8:58
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1401	-12305.6104	2	-720	80	75	Under way using engine		3	10.208.34.241.9040	3/17/2019 8:58
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1401	-12305.6104	2.1	-720	72	75	Under way using engine		3	10.208.34.241.9040	3/17/2019 8:58
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1401	-12305.6104	1.8	-720	69	77	Under way using engine		3	10.208.34.241.9040	3/17/2019 8:59
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.5996	1.3	-720	75	78	Under way using engine		3	10.208.34.241.9040	3/17/2019 8:59
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.5996	1.1	-720	84	85	Under way using engine		3	10.208.34.241.9040	3/17/2019 8:59
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.145	-12305.5977	1	-720	92	87	Under way using engine		3	10.208.34.241.9040	3/17/2019 8:59
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.5966	0.9	-720	77	90	Under way using engine		3	10.208.34.241.9040	3/17/2019 8:59
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.5966	0.7	-720	100	92	Under way using engine		3	10.208.34.241.9040	3/17/2019 8:59
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.5966	0.5	-720	19	93	Under way using engine		3	10.208.34.241.9040	3/17/2019 8:59
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.5966	0.2	-720	72	95	Under way using engine		3	10.208.34.241.9040	3/17/2019 8:59
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.5966	0.6	-720	7	98	Under way using engine		3	10.208.34.241.9040	3/17/2019 8:59
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.5966	0.3	-720	48	102	Under way using engine		3	10.208.34.241.9040	3/17/2019 8:59
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.5966	0.5	-720	35	105	Under way using engine		3	10.208.34.241.9040	3/17/2019 8:59



ATON type	Class	Type of ship	IMO	MMSI	Call sign	Name	Destination	Latitude (DDMM.mmmm)	Longitude (DDMM.mmmm)	SOG (knts)	ROT (deg/min)	COG (deg)	True heading	Navigational status	Msg type	Port	Date time stamp
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.5898	0.4	-720	47	107	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:59
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.5898	0.5	-720	41	111	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:59
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.5898	0.5	-720	44	115	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:59
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.5898	0.7	-720	50	118	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:59
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.5898	0.8	-720	41	123	Under way using engine	3	10.208.34.241.9040	3/17/2019 8:59
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.5898	0.9	-720	53	128	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:00
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.5898	0.6	-720	55	134	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:00
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	VANCOUVER	4918.1499	-12305.5898	0.5	-720	23	137	Unknown	5	10.208.34.241.9040	3/17/2019 9:00
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.5898	0.5	-720	18	138	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:00
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.5898	0.5	-720	0	139	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:00
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.5898	0.6	-720	0	139	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:00
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.5898	0.6	-720	105	136	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:00
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.5898	0.6	-720	239	136	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:00
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.5898	0.7	-720	54	141	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:00
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.5898	0.5	-720	66	145	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:00
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.5898	0.7	-720	108	148	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:00
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.5898	1.1	-720	73	156	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:00
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.5898	1	-720	79	162	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:00
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.5898	1	-720	83	168	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:00
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.5898	0.7	-720	98	173	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:00
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.5898	0.6	-720	89	178	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:00
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.5898	0.5	-720	97	180	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:00
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.5898	0.4	-720	100	182	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:01
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.5898	0.1	-720	103	183	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:01
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.5898	0	-720	112	184	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:01
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.5898	0.1	-720	105	184	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:01
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.5898	0.1	-720	236	184	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:01
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.5898	0.1	-720	19	182	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:01
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.5898	0.4	-720	344	180	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:01
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.5898	1.2	-720	330	176	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:01
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.5898	1.5	-720	316	167	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:01
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.5898	1.7	-720	294	156	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:01
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1499	-12305.5898	1.8	-720	298	142	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:01
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.5898	1.5	-720	292	136	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:01
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.5898	2.1	-720	290	132	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:01
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.5898	2	-720	270	124	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:01
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.5898	1.5	-720	270	111	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:01
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.5898	1.3	-720	215	94	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:01
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.5898	0.3	-720	183	85	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:02
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.5898	1.2	-720	117	73	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:02
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.5898	2	-720	73	67	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:02
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.5898	2.7	-720	61	65	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:02
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.5898	4	-720	68	63	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:02

ATON type	Class	Type of ship	IMO	MMSI	Call sign	Name	Destination	Latitude (DDMM.mmmmm)	Longitude (DDMM.mmmmm)	SOG (knts)	ROT (deg/min)	COG (deg)	True heading	Navigation status	Msg type	Port	Date time stamp
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.5801	4.4	-720	65	62	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:02
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1602	-12305.5703	5.2	-720	56	64	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:02
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1699	-12305.5703	5.7	-720	64	64	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:02
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1699	-12305.5596	6.2	-720	61	66	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:02
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1699	-12305.5498	6.5	-720	65	66	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:02
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1699	-12305.5498	6.8	-720	64	66	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:02
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1802	-12305.54	6.8	-720	64	64	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:02
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1802	-12305.54	6.9	-720	62	61	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:02
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1802	-12305.5195	7.1	-720	56	60	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:02
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1899	-12305.5098	7.7	-720	56	51	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:02
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1899	-12305.5	7.3	-720	50	50	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:02
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.1899	-12305.4902	7.3	-720	45	55	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:02
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.2002	-12305.4805	7.5	-720	49	63	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:02
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.2002	-12305.4805	7.5	-720	54	65	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:02
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.21	-12305.4697	7.4	-720	71	58	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:03
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.21	-12305.46	8	-720	50	55	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:03
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.21	-12305.4502	8.2	-720	53	53	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:03
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.2202	-12305.4404	8.6	-720	51	54	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:03
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.2285	-12305.4297	8.4	-720	51	58	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:03
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.23	-12305.4199	8.1	-720	59	66	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:03
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.2402	-12305.4004	7.8	-720	67	66	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:03
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.2402	-12305.3896	7.8	-720	64	63	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:03
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.25	-12305.3701	7.7	-720	58	63	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:03
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.25	-12305.3604	7.6	-720	54	61	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:03
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.25	-12305.3598	7.6	-720	60	62	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:03
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.2598	-12305.3496	7.6	-720	60	63	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:03
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.27	-12305.3301	7.4	-720	65	61	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:03
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.27	-12305.3203	7.4	-720	57	59	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:03
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.27	-12305.3096	7.3	-720	57	59	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:04
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.2798	-12305.2998	7.1	-720	61	56	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:04
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.2798	-12305.2803	7	-720	58	55	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:04
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.2798	-12305.2695	7.1	-720	52	70	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:04
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.2905	-12305.2568	7.1	-720	61	80	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:04
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.29	-12305.25	6.5	-720	87	77	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:04
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.29	-12305.2402	6.4	-720	68	72	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:04
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.29	-12305.2305	6.3	-720	72	67	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:04
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.2964	-12305.2227	6.5	-720	70	62	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:04
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.2998	-12305.2197	6.4	-720	61	60	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:04
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.3101	-12305.2002	6.7	-720	54	58	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:04



ATON type	Class	Type of ship	IMO	MMSI	Call sign	Name	Destination	Latitude (DDMM.mmmm)	Longitude (DDMM.mmmm)	SOG (knts)	ROT (deg/min)	COG (deg)	True heading	Navigational status	Msg type	Port	Date time stamp
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.4302	-12304.8701	4.9	0	49	49	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:07
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.4399	-12304.8701	4.8	0	55	55	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:07
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.4399	-12304.8604	4.6	-720	48	48	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:07
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.4399	-12304.8604	4.4	0	58	58	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:07
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.4399	-12304.8496	4.2	-720	55	55	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:07
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.4502	-12304.8496	4.2	-720	56	56	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:07
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.4512	-12304.8369	4.1	-720	53	53	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:07
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.4502	-12304.8301	4.1	-720	49	49	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:07
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.46	-12304.8301	4.1	-720	45	45	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:07
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.46	-12304.8203	4	-720	41	41	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:07
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.46	-12304.8203	3.9	-720	42	42	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:07
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.46	-12304.8096	3.9	-720	39	39	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:07
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.4702	-12304.8096	3.8	-720	39	39	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:07
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.4702	-12304.8096	3.8	-720	38	38	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:07
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.4702	-12304.8096	3.7	-720	28	28	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:07
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.48	-12304.8096	3.6	0	26	26	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:08
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.48	-12304.7998	3.7	0	22	22	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:08
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.48	-12304.7998	3.4	-720	27	27	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:08
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.4902	-12304.7998	2.9	-720	20	20	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:08
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.4902	-12304.7998	3	-720	18	18	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:08
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.4902	-12304.7998	2.7	-720	15	15	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:08
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5	-12304.79	2.4	-720	24	24	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:08
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5	-12304.79	2.2	0	25	25	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:08
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5	-12304.79	1.8	-720	18	18	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:08
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5	-12304.79	0.8	0	3	3	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:08
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5	-12304.79	0.5	0	357	29	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:08
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5	-12304.79	0.6	0	11	11	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:08
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5	-12304.79	0.6	0	1	1	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:08
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5	-12304.79	0.9	0	348	28	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:08
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5	-12304.79	0.4	-720	359	27	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:09
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0.3	-720	310	26	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:09
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0.4	-720	349	24	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:09
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0.4	-720	327	23	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:09
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0.2	-720	44	23	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:09
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0.1	-720	250	24	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:09
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0.2	-720	146	24	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:09
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0.1	-720	231	24	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:09
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0.1	0	330	24	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:09
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0.1	0	189	24	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:09
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0.3	-720	238	25	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:09
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0.1	-720	296	26	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:09
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0.2	-720	258	29	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:09

ATON type	Class	Type of ship	IMO	MMSI	Call sign	Name	Destination	Latitude (DDMM.mmmmm)	Longitude (DDMM.mmmmm)	SOG (knts)	ROT (deg/min)	COG (deg)	True heading	Navigational status	Msg type	Port	Date time stamp
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.792	0.3	-720	268	31	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:09
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0.1	-720	260	33	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:09
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.792	0.1	-720	204	35	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:09
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0.1	-720	215	35	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:09
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.792	0.2	0	102	35	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:10
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0.2	0	357	35	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:10
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0	0	6	35	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:10
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0.1	0	211	35	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:10
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0.1	0	334	35	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:10
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.792	0	0	190	35	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:10
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0.1	0	291	35	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:10
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.792	0.1	0	165	36	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:10
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.792	0.1	0	245	36	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:10
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0.1	0	100	36	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:10
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0	0	356	35	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:10
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0.1	0	215	35	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:10
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0	0	94	35	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:10
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0	0	109	36	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:10
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0.1	0	152	36	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:10
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0.1	0	183	35	Under way using engine	1	10.208.34.241.9040	3/17/2019 9:11
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0.1	0	113	35	Under way using engine	1	10.208.34.241.9040	3/17/2019 9:11
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0.1	0	101	35	Under way using engine	1	10.208.34.241.9040	3/17/2019 9:11
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0	0	228	36	Under way using engine	1	10.208.34.241.9040	3/17/2019 9:11
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0	0	556	36	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:11
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0.1	0	287	36	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:11
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0	0	52	37	Under way using engine	5	10.208.34.241.9040	3/17/2019 9:12
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	VANCOUVER	4918.5098	-12304.79	0.1	0	218	37	Under way using engine	1	10.208.34.241.9040	3/17/2019 9:12
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0	0	189	37	Under way using engine	1	10.208.34.241.9040	3/17/2019 9:12
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0.1	0	158	37	Under way using engine	1	10.208.34.241.9040	3/17/2019 9:12
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.792	0.1	0	237	37	Under way using engine	1	10.208.34.241.9040	3/17/2019 9:12
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5054	-12304.792	0.1	0	130	37	Under way using engine	1	10.208.34.241.9040	3/17/2019 9:12
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5054	-12304.792	0.1	0	208	38	Under way using engine	1	10.208.34.241.9040	3/17/2019 9:13
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0.1	0	172	37	Under way using engine	1	10.208.34.241.9040	3/17/2019 9:13
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5054	-12304.792	0	0	337	37	Under way using engine	1	10.208.34.241.9040	3/17/2019 9:13
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0.1	0	69	35	Under way using engine	1	10.208.34.241.9040	3/17/2019 9:13
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5054	-12304.792	0.1	0	93	35	Under way using engine	1	10.208.34.241.9040	3/17/2019 9:13
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5054	-12304.792	0.1	0	338	34	Under way using engine	1	10.208.34.241.9040	3/17/2019 9:14
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0.1	0	16	34	Under way using engine	1	10.208.34.241.9040	3/17/2019 9:14
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5054	-12304.792	0.1	0	277	34	Under way using engine	1	10.208.34.241.9040	3/17/2019 9:14
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0	0	172	34	Under way using engine	1	10.208.34.241.9040	3/17/2019 9:14
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.792	0.1	0	157	34	Under way using engine	1	10.208.34.241.9040	3/17/2019 9:14
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5059	-12304.792	0.1	0	147	34	Under way using engine	1	10.208.34.241.9040	3/17/2019 9:14

ATON type	Class	Type of ship	IMO	MMSI	Call sign	Name	Destination	Latitude (DDMM.mmmm)	Longitude (DDMM.mmmm)	SOG (knts)	ROT (deg/min)	COG (deg)	True heading	Navigational status	Msg type	Port	Date time stamp
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0	0	115	34	Under way using engine	1	10.208.34.241.9040	3/17/2019 9:15
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0	0	126	34	Under way using engine	1	10.208.34.241.9040	3/17/2019 9:15
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0	0	304	34	Under way using engine	1	10.208.34.241.9040	3/17/2019 9:15
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0	0	105	34	Under way using engine	1	10.208.34.241.9040	3/17/2019 9:15
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0	0	240	34	Under way using engine	1	10.208.34.241.9040	3/17/2019 9:15
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0	0	91	34	Under way using engine	1	10.208.34.241.9040	3/17/2019 9:15
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0	0	189	33	Under way using engine	1	10.208.34.241.9040	3/17/2019 9:16
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0	0	285	33	Under way using engine	1	10.208.34.241.9040	3/17/2019 9:16
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0.1	0	139	34	Under way using engine	1	10.208.34.241.9040	3/17/2019 9:17
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0.1	0	166	34	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:17
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0	0	217	34	Under way using engine	1	10.208.34.241.9040	3/17/2019 9:17
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0.2	0	109	34	Under way using engine	1	10.208.34.241.9040	3/17/2019 9:17
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	VANCOUVER	4918.5098	-12304.79	0	0	111	34	Under way using engine	1	10.208.34.241.9040	3/17/2019 9:18
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0.1	0	147	34	Under way using engine	1	10.208.34.241.9040	3/17/2019 9:18
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0.1	0	124	34	Under way using engine	1	10.208.34.241.9040	3/17/2019 9:18
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0.1	0	228	34	Under way using engine	1	10.208.34.241.9040	3/17/2019 9:18
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0	0	341	34	Under way using engine	1	10.208.34.241.9040	3/17/2019 9:18
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0.1	0	326	34	Under way using engine	1	10.208.34.241.9040	3/17/2019 9:19
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0.1	0	264	34	Under way using engine	1	10.208.34.241.9040	3/17/2019 9:19
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0	0	58	34	Under way using engine	1	10.208.34.241.9040	3/17/2019 9:19
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0	0	209	34	Under way using engine	1	10.208.34.241.9040	3/17/2019 9:19
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0	0	306	34	Under way using engine	1	10.208.34.241.9040	3/17/2019 9:19
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0	0	25	34	Under way using engine	1	10.208.34.241.9040	3/17/2019 9:19
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0	0	32	35	Under way using engine	1	10.208.34.241.9040	3/17/2019 9:20
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0.1	0	185	35	Under way using engine	1	10.208.34.241.9040	3/17/2019 9:20
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0	0	309	35	Under way using engine	1	10.208.34.241.9040	3/17/2019 9:20
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0	0	228	34	Under way using engine	1	10.208.34.241.9040	3/17/2019 9:20
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0	0	249	34	Under way using engine	1	10.208.34.241.9040	3/17/2019 9:20
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0.1	0	331	34	Under way using engine	1	10.208.34.241.9040	3/17/2019 9:21
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0	0	98	34	Under way using engine	1	10.208.34.241.9040	3/17/2019 9:21
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0	0	118	34	Under way using engine	1	10.208.34.241.9040	3/17/2019 9:21
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0.1	0	8	35	Under way using engine	1	10.208.34.241.9040	3/17/2019 9:21
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0	0	132	35	Under way using engine	1	10.208.34.241.9040	3/17/2019 9:21
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0	0	200	35	Under way using engine	1	10.208.34.241.9040	3/17/2019 9:22
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0	0	158	35	Under way using engine	1	10.208.34.241.9040	3/17/2019 9:22

ATON type	Class	Type of ship	IMO	MMSI	Call sign	Name	Destination	Latitude (DDMM.mmmm)	Longitude (DDMM.mmmm)	SOG (knts)	ROT (deg/min)	COG (deg)	True heading	Navigational status	Msg type	Date time stamp
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0.1	0	172	34	Under way using engine	Port	3/17/2019 9:22
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0.2	0	157	34	Under way using engine		3/17/2019 9:22
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0.1	0	55	34	Under way using engine		3/17/2019 9:22
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0.1	0	157	34	Under way using engine		3/17/2019 9:22
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0.1	0	40	34	Under way using engine		3/17/2019 9:22
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0.1	0	320	34	Under way using engine		3/17/2019 9:23
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0.1	0	125	34	Under way using engine		3/17/2019 9:23
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0.1	0	77	34	Under way using engine		3/17/2019 9:23
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0.1	0	110	34	Under way using engine		3/17/2019 9:23
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0	0	248	34	Under way using engine		3/17/2019 9:23
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0.1	0	161	34	Under way using engine		3/17/2019 9:23
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0	0	332	34	Under way using engine		3/17/2019 9:24
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	VANCOUVER	4918.5098	-12304.79	0.1	0	341	34	Under way using engine		3/17/2019 9:24
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0.1	0	194	34	Under way using engine		3/17/2019 9:24
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0.1	0	88	34	Under way using engine		3/17/2019 9:24
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0.1	0	44	34	Under way using engine		3/17/2019 9:24
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0	0	116	34	Under way using engine		3/17/2019 9:24
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0	0	274	34	Under way using engine		3/17/2019 9:25
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0.1	0	99	34	Under way using engine		3/17/2019 9:25
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0.1	0	261	34	Under way using engine		3/17/2019 9:25
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0.1	0	275	34	Under way using engine		3/17/2019 9:25
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0.1	0	190	34	Under way using engine		3/17/2019 9:25
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0.1	0	114	34	Under way using engine		3/17/2019 9:25
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0.1	0	161	34	Under way using engine		3/17/2019 9:25
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0.1	0	58	34	Under way using engine		3/17/2019 9:26
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0	0	242	34	Under way using engine		3/17/2019 9:26
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0	0	89	34	Under way using engine		3/17/2019 9:26
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0.1	0	354	35	Under way using engine		3/17/2019 9:26
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0	0	207	35	Under way using engine		3/17/2019 9:26
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0	0	104	36	Under way using engine		3/17/2019 9:26
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5059	-12304.792	0	0	-720	36	Under way using engine		3/17/2019 9:26
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0	0	278	37	Under way using engine		3/17/2019 9:27
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0	0	133	37	Under way using engine		3/17/2019 9:27
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0.1	0	169	37	Under way using engine		3/17/2019 9:27
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0.2	0	181	37	Under way using engine		3/17/2019 9:27
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0	0	160	38	Under way using engine		3/17/2019 9:27
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0	0	123	38	Under way using engine		3/17/2019 9:27
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0	0	301	38	Under way using engine		3/17/2019 9:27
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0	0	87	38	Under way using engine		3/17/2019 9:27
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0	0	44	38	Under way using engine		3/17/2019 9:27
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0	0	224	39	Under way using engine		3/17/2019 9:27
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0	0	324	39	Under way using engine		3/17/2019 9:27
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0.1	0	15	39	Under way using engine		3/17/2019 9:27
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0.1	0	150	38	Under way using engine		3/17/2019 9:28
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN		4918.5098	-12304.79	0	0	36	38	Under way using engine		3/17/2019 9:28

ATON type	Class	Type of ship	IMO	MMSI	number	Call sign	Name	Destination	Latitude (DDMM.mmmm)	Longitude (DDMM.mmmm)	SOG (knts)	ROT (deg/min)	COG (deg)	True heading	Navigational status	Msg type	Port	Date time stamp
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4918.5098	-12304.79	0.1	0	352	38	Under way using engine	1	10.208.34.241.9040	3/17/2019 9:28
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4918.5098	-12304.79	0	0	165	38	Under way using engine	1	10.208.34.241.9040	3/17/2019 9:28
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4918.5098	-12304.79	0	0	337	38	Under way using engine	1	10.208.34.241.9040	3/17/2019 9:28
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4918.5098	-12304.79	0	0	102	38	Under way using engine	1	10.208.34.241.9040	3/17/2019 9:28
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4918.5098	-12304.79	0	0	189	38	Under way using engine	1	10.208.34.241.9040	3/17/2019 9:29
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4918.5098	-12304.79	0.1	0.1	297	37	Under way using engine	1	10.208.34.241.9040	3/17/2019 9:29
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4918.5098	-12304.79	0.1	0.1	259	36	Under way using engine	1	10.208.34.241.9040	3/17/2019 9:29
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4918.5098	-12304.79	0.2	0.2	125	35	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:29
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4918.5098	-12304.79	0.1	0.1	168	34	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:29
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4918.5098	-12304.79	0.1	0.1	307	31	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:29
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4918.5098	-12304.79	0.2	0.2	193	27	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:30
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4918.5098	-12304.79	0.3	0.3	157	25	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:30
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4918.5098	-12304.79	0.5	0.5	164	23	Under way using engine	5	10.208.34.241.9040	3/17/2019 9:30
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN	VANCOUVER	4918.5	-12304.79			202	20	Under way using engine	5	10.208.34.241.9040	3/17/2019 9:30
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4918.5	-12304.79	0.9	0.9	152	15	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:30
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4918.5	-12304.79	1	-720	189	9	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:30
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4918.5	-12304.79	1.5	-720	169	4	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:30
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4918.5	-12304.79	1.7	-720	165	359	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:30
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4918.5	-12304.79	1.8	-720	178	349	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:30
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4918.5	-12304.79	1.8	-720	140	340	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:30
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4918.5	-12304.79	1.8	-720	162	329	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:30
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4918.4902	-12304.79	1.7	-720	119	315	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:30
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4918.4902	-12304.79	1.2	-720	125	301	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:30
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4918.4902	-12304.79	1.1	-720	92	283	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:30
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4918.4902	-12304.79	0.6	-720	68	261	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:30
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4918.4902	-12304.79	0.7	-720	309	239	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:30
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4918.4902	-12304.79	1.7	-720	245	229	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:31
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4918.4902	-12304.79	1.7	-720	234	218	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:31
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4918.4902	-12304.79	2.5	-720	221	208	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:31
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4918.4902	-12304.79	3.3	-720	207	200	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:31
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4918.48	-12304.79	4.4	-720	198	190	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:31
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4918.48	-12304.79	5	-720	0	190	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:31
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4918.4702	-12304.7998	6.1	-720	188	189	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:31
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4918.46	-12304.7998	6.1	-720	188	188	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:31
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4918.46	-12304.7998	6.6	-720	187	187	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:31
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4918.4502	-12304.7998	6.7	-720	187	186	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:31
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4918.4424	-12304.8027	6.9	-720	0	186	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:31
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4918.4399	-12304.7998	7.1	-720	187	186	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:31
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4918.4302	-12304.8096	7.4	-720	188	186	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:31
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAV	RAVEN		4918.4199	-12304.8096	7.6	-720	186	185	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:31



ATON type	Class	Type of ship	IMO	MMSI	Name	Destination	Latitude (DDMM.mmmm)	Longitude (DDMM.mmmm)	SOG (knts)	ROT (deg/min)	COG (deg)	True heading	Navigational status	Msg type	Port	Date time stamp
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.4199	-12304.8096	7.6	-720	186	184	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:31
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.4102	-12304.8096	7.8	-720	183	182	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:31
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.3999	-12304.8096	7.6	-720	183	181	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:32
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.3901	-12304.8096	8	-720	180	179	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:32
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.3901	-12304.8096	8.4	-720	179	185	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:32
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.3799	-12304.8096	9	-720	187	188	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:32
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.3701	-12304.8096	9.3	-720	187	189	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:32
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.3599	-12304.8096	9.5	-720	190	189	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:32
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.3501	-12304.8203	9.6	-720	192	186	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:32
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.3398	-12304.8203	9.5	-720	186	184	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:32
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.3301	-12304.8203	9.8	-720	187	183	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:32
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.3198	-12304.8203	9.9	-720	185	181	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:32
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.3101	-12304.8203	10	0	183	181	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:32
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.2998	-12304.8201	10.1	-720	182	181	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:32
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.29	-12304.8201	9.9	0	182	181	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:32
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.2798	-12304.8201	10.1	0	181	179	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:32
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.27	-12304.8201	9.9	0	181	179	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:32
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.25	-12304.8201	9.6	0	181	179	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:32
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.23	-12304.8201	9.4	-720	181	177	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:33
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.21	-12304.8201	9.2	-720	179	178	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:33
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.2002	-12304.8201	9.3	-720	181	179	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:33
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.1899	-12304.8201	9.2	0	182	179	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:33
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.1802	-12304.8201	9.2	0	181	179	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:33
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.1699	-12304.8201	9.1	0	183	179	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:33
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.1699	-12304.8201	9	0	180	178	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:33
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.1602	-12304.8201	8.9	0	182	178	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:33
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.1499	-12304.8201	8.8	-720	179	177	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:33
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.1401	-12304.8201	8.9	0	182	176	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:33
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.1299	-12304.8201	8.7	0	178	176	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:33
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.1172	-12304.8201	8.6	0	177	176	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:33
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.1099	-12304.8201	8.6	0	180	176	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:33
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.1001	-12304.8201	8.5	0	177	175	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:33
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.0898	-12304.8201	8.6	-720	179	173	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:34
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.0801	-12304.8201	8.7	0	176	173	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:34
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.0698	-12304.8201	8.5	0	172	173	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:34
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.0601	-12304.8203	8.4	-720	176	171	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:34
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.0498	-12304.8203	8.5	-720	169	169	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:34
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.04	-12304.8203	8.5	-720	164	171	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:34
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.0298	-12304.8096	8.4	-720	165	172	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:34
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPAN RAVEN	4918.02	-12304.8096	8.5	-720	165	170	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:34

ATON type	Class	Type of ship	IMO	MMSI	number	Call sign	Name	Destination	Latitude (DDMM.mmmm)	Longitude (DDMM.mmmm)	SOG (knts)	ROT (deg/min)	COG (deg)	True heading	Navigational status	Msg type	Port	Date time stamp
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4918.0098	-12304.8096	8.4	-720	164	168	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:34
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.9902	-12304.7998	8.5	-720	163	170	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:34
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.9802	-12304.79	8.6	-720	165	172	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:34
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.98	-12304.79	8.5	-720	166	174	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:34
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.9702	-12304.79	8.6	-720	168	175	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:34
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.96	-12304.7803	8.4	-720	167	176	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:35
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.9502	-12304.7803	8.2	-720	166	175	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:35
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.9399	-12304.7803	8.1	-720	168	174	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:35
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.9302	-12304.7803	7.7	-720	169	174	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:35
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.9302	-12304.7803	7.9	-720	166	173	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:35
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.9193	-12304.7695	8	-720	169	173	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:35
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.9102	-12304.7695	7.9	-720	164	173	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:35
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.8999	-12304.7598	7.8	-720	167	174	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:35
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.8901	-12304.7598	7.5	-720	167	175	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:35
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.8901	-12304.7598	7.6	-720	167	176	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:35
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.8799	-12304.7598	7.4	-720	168	176	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:35
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.8701	-12304.75	7.2	-720	169	175	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:35
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.8599	-12304.75	7	-720	169	175	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:35
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.8501	-12304.75	7	-720	168	177	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:35
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.8398	-12304.75	6.9	-720	171	177	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:35
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.8301	-12304.75	6.9	-720	169	178	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:36
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.8101	-12304.7402	6.8	-720	172	177	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:36
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.7998	-12304.7402	6.6	-720	171	177	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:36
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.7988	-12304.7402	6.5	-720	173	179	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:36
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.798	-12304.7402	6.5	-720	173	180	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:36
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.79	-12304.7402	6.5	-720	173	180	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:36
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.7798	-12304.7402	6.3	-720	174	180	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:36
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.7783	-12304.7324	6.4	-720	172	181	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:36
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.77	-12304.7305	6.3	-720	174	182	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:36
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.7598	-12304.7305	6.2	-720	173	183	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:36
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.75	-12304.7305	5.9	-720	176	186	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:36
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.7402	-12304.7305	5.6	-720	181	187	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:36
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.7402	-12304.7305	5.7	-720	178	189	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:36
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.73	-12304.7305	5.5	-720	181	195	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:36
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.73	-12304.7305	5.4	-720	179	201	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:36
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.73	-12304.7305	5	-720	194	213	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:37
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.7202	-12304.7305	4.8	-720	198	223	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:37
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.71	-12304.7402	3.9	-720	221	244	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:37
Unknown	CA	Tug	316018851	9432957	CFN6643	SEASPA	N RAVEN		4917.71	-12304.7402	3.8	-720	226	249	Under way using engine	3	10.208.34.241.9040	3/17/2019 9:37

ATON type	Class	Type of ship	MMSI	IMO	number	Call sign	Name	Destination	Latitude (DDMM.mmmmm)	Longitude (DDMM.mmmmm)	SOG (knts)	ROT (deg)	COG (deg)	Trueing	Navigationl status	Mmsg type	Port	Date time stamp
Unknown	CA	Tug	316018851	9432957	CN6643	SEASPAN RAYEN	4917.71	-12304.75	3.6	0	-720	242	247	Under way using engine	3	0	208.34, 241.9040	3/17/2019 9:37
Unknown	CA	Tug	316018851	9432957	CN6643	SEASPAN RAYEN	4917.71	-12304.758	3.7	0	-720	247	240	Under way using engine	3	0	208.34, 241.9040	3/17/2019 9:37
Unknown	CA	Tug	316018851	9432957	CN6643	SEASPAN RAYEN	4917.7002	-12304.758	3.7	0	-720	235	247	Under way using engine	3	0	208.34, 241.9040	3/17/2019 9:37
Unknown	CA	Tug	316018851	9432957	CN6643	SEASPAN RAYEN	4917.7002	-12304.7695	3.6	0	-720	215	220	Under way using engine	3	0	208.34, 241.9040	3/17/2019 9:37
Unknown	CA	Tug	316018851	9432957	CN6643	SEASPAN RAYEN	4917.7002	-12304.7803	3.8	0	-720	211	204	Under way using engine	3	0	208.34, 241.9040	3/17/2019 9:37
Unknown	CA	Tug	316018851	9432957	CN6643	SEASPAN RAYEN	4917.6899	-12304.7803	3.3	0	-720	203	206	Under way using engine	3	0	208.34, 241.9040	3/17/2019 9:37
Unknown	CA	Tug	316018851	9432957	CN6643	SEASPAN RAYEN	4917.6899	-12304.7803	2.8	0	-720	191	207	Under way using engine	3	0	208.34, 241.9040	3/17/2019 9:37
Unknown	CA	Tug	316018851	9432957	CN6643	SEASPAN RAYEN	4917.6802	-12304.7803	2.2	0	-720	197	206	Under way using engine	3	0	208.34, 241.9040	3/17/2019 9:38
Unknown	CA	Tug	316018851	9432957	CN6643	SEASPAN RAYEN	4917.6802	-12304.79	2.2	0	-720	202	202	Under way using engine	3	0	208.34, 241.9040	3/17/2019 9:38
Unknown	CA	Tug	316018851	9432957	CN6643	SEASPAN RAYEN	4917.6802	-12304.79	2.1	0	-720	194	201	Under way using engine	3	0	208.34, 241.9040	3/17/2019 9:38
Unknown	CA	Tug	316018851	9432957	CN6643	SEASPAN RAYEN	4917.6802	-12304.79	1.9	0	-720	191	204	Under way using engine	3	0	208.34, 241.9040	3/17/2019 9:38
Unknown	CA	Tug	316018851	9432957	CN6643	SEASPAN RAYEN	4917.6802	-12304.79	1.6	0	-720	189	201	Under way using engine	3	0	208.34, 241.9040	3/17/2019 9:38
Unknown	CA	Tug	316018851	9432957	CN6643	SEASPAN RAYEN	4917.6699	-12304.79	0.1	0	-720	150	183	Under way using engine	3	0	208.34, 241.9040	3/17/2019 9:38
Unknown	CA	Tug	316018851	9432957	CN6643	SEASPAN RAYEN	4917.6699	-12304.79	0.2	0	-720	67	187	Under way using engine	3	0	208.34, 241.9040	3/17/2019 9:38
Unknown	CA	Tug	316018851	9432957	CN6643	SEASPAN RAYEN	4917.6699	-12304.79	0.1	0	-720	210	187	Under way using engine	3	0	208.34, 241.9040	3/17/2019 9:38
Unknown	CA	Tug	316018851	9432957	CN6643	SEASPAN RAYEN	4917.6699	-12304.79	0.3	0	-720	244	184	Under way using engine	3	0	208.34, 241.9040	3/17/2019 9:38
Unknown	CA	Tug	316018851	9432957	CN6643	SEASPAN RAYEN	4917.6699	-12304.79	0.1	0	-720	213	184	Under way using engine	3	0	208.34, 241.9040	3/17/2019 9:38
Unknown	CA	Tug	316018851	9432957	CN6643	SEASPAN RAYEN	4917.6699	-12304.79	0.5	0	-720	742	183	Under way using engine	3	0	208.34, 241.9040	3/17/2019 9:38
Unknown	CA	Tug	316018851	9432957	CN6643	SEASPAN RAYEN	4917.6733	-12304.7891	0.6	0	-720	135	188	Under way using engine	3	0	208.34, 241.9040	3/17/2019 9:38
Unknown	CA	Tug	316018851	9432957	CN6643	SEASPAN RAYEN	4917.6699	-12304.79	1	0	-720	253	192	Under way using engine	3	0	208.34, 241.9040	3/17/2019 9:38
Unknown	CA	Tug	316018851	9432957	CN6643	SEASPAN RAYEN	4917.6699	-12304.79	0.9	0	-720	200	191	Under way using engine	3	0	208.34, 241.9040	3/17/2019 9:39
Unknown	CA	Tug	316018851	9432957	CN6643	SEASPAN RAYEN	4917.6699	-12304.79	0.7	0	-720	192	189	Under way using engine	3	0	208.34, 241.9040	3/17/2019 9:39
Unknown	CA	Tug	316018851	9432957	CN6643	SEASPAN RAYEN	4917.6699	-12304.79	1.2	0	-720	203	185	Under way using engine	3	0	208.34, 241.9040	3/17/2019 9:39
Unknown	CA	Tug	316018851	9432957	CN6643	SEASPAN RAYEN	4917.6699	-12304.79	0.7	0	-720	209	184	Under way using engine	3	0	208.34, 241.9040	3/17/2019 9:39
Unknown	CA	Tug	316018851	9432957	CN6643	SEASPAN RAYEN	4917.6699	-12304.79	1	0	-720	268	182	Under way using engine	3	0	208.34, 241.9040	3/17/2019 9:39
Unknown	CA	Tug	316018851	9432957	CN6643	SEASPAN RAYEN	4917.6699	-12304.79	0.2	0	-720	231	180	Under way using engine	3	0	208.34, 241.9040	3/17/2019 9:39
Unknown	CA	Tug	316018851	9432957	CN6643	SEASPAN RAYEN	4917.6699	-12304.79	0.6	0	-720	215	180	Under way using engine	3	0	208.34, 241.9040	3/17/2019 9:39
Unknown	CA	Tug	316018851	9432957	CN6643	SEASPAN RAYEN	4917.6699	-12304.79	0.9	0	-720	219	179	Under way using engine	3	0	208.34, 241.9040	3/17/2019 9:39
Unknown	CA	Tug	316018851	9432957	CN6643	SEASPAN RAYEN	4917.6699	-12304.79	0.3	0	-720	342	179	Under way using engine	3	0	208.34, 241.9040	3/17/2019 9:39
Unknown	CA	Tug	316018851	9432957	CN6643	SEASPAN RAYEN	4917.6699	-12304.79	0.2	0	-720	60	179	Under way using engine	3	0	208.34, 241.9040	3/17/2019 9:39
Unknown	CA	Tug	316018851	9432957	CN6643	SEASPAN RAYEN	4917.6699	-12304.79	0.2	0	-720	65	179	Under way using engine	3	0	208.34, 241.9040	3/17/2019 9:39
Unknown	CA	Tug	316018851	9432957	CN6643	SEASPAN RAYEN	4917.6699	-12304.79	0.3	0	-720	36	178	Under way using engine	3	0	208.34, 241.9040	3/17/2019 9:39
Unknown	CA	Tug	316018851	9432957	CN6643	SEASPAN RAYEN	4917.6699	-12304.79	0.3	0	-720	63	179	Under way using engine	3	0	208.34, 241.9040	3/17/2019 9:39
Unknown	CA	Tug	316018851	9432957	CN6643	SEASPAN RAYEN	4917.6699	-12304.79	0.3	0	-720	33	178	Under way using engine	3	0	208.34, 241.9040	3/17/2019 9:39

ATON type	Class	Type of ship	IMO	Call sign	Name	Destination	Latitude (DDMM.mmmm)	Longitude (DDMM.mmmm)	SOG (knts)	ROT (deg/min)	COG (deg)	True heading	Navigational status	Msg type	Port	Date time stamp
Unknown	CA	Tug	316018851	9432957 CFN6643	SEASPAN RAVEN		4917 6699	-12304.79	0.4	0	63	178	Under way using engine		3 10.208.34.241.9040	3/17/2019 9:40
Unknown	CA	Tug	316018851	9432957 CFN6643	SEASPAN RAVEN		4917 6699	-12304.79	0.2	0	7	178	Under way using engine		3 10.208.34.241.9040	3/17/2019 9:40
Unknown	CA	Tug	316018851	9432957 CFN6643	SEASPAN RAVEN		4917 6699	-12304.79	0.4	-720	38	178	Under way using engine		3 10.208.34.241.9040	3/17/2019 9:40
Unknown	CA	Tug	316018851	9432957 CFN6643	SEASPAN RAVEN		4917 6699	-12304.79	0.7	-720	41	190	Under way using engine		3 10.208.34.241.9040	3/17/2019 9:40
Unknown	CA	Tug	316018851	9432957 CFN6643	SEASPAN RAVEN		4917 6699	-12304.79	0.8	-720	54	193	Under way using engine		3 10.208.34.241.9040	3/17/2019 9:40
Unknown	CA	Tug	316018851	9432957 CFN6643	SEASPAN RAVEN		4917 6699	-12304.7803	0.8	-720	44	197	Under way using engine		3 10.208.34.241.9040	3/17/2019 9:40
Unknown	CA	Tug	316018851	9432957 CFN6643	SEASPAN RAVEN		4917 6699	-12304.7803	0.9	-720	60	202	Under way using engine		3 10.208.34.241.9040	3/17/2019 9:40
Unknown	CA	Tug	316018851	9432957 CFN6643	SEASPAN RAVEN		4917 6699	-12304.7803	1.4	-720	44	212	Under way using engine		3 10.208.34.241.9040	3/17/2019 9:40
Unknown	CA	Tug	316018851	9432957 CFN6643	SEASPAN RAVEN		4917 6699	-12304.7803	1.5	-720	40	215	Under way using engine		3 10.208.34.241.9040	3/17/2019 9:40
Unknown	CA	Tug	316018851	9432957 CFN6643	SEASPAN RAVEN		4917 6699	-12304.7803	1.9	-720	59	220	Under way using engine		3 10.208.34.241.9040	3/17/2019 9:40
Unknown	CA	Tug	316018851	9432957 CFN6643	SEASPAN RAVEN		4917 6699	-12304.7803	2.3	-720	37	224	Under way using engine		3 10.208.34.241.9040	3/17/2019 9:40
Unknown	CA	Tug	316018851	9432957 CFN6643	SEASPAN RAVEN		4917 6802	-12304.7695	2.2	-720	57	231	Under way using engine		3 10.208.34.241.9040	3/17/2019 9:40
Unknown	CA	Tug	316018851	9432957 CFN6643	SEASPAN RAVEN		4917 6802	-12304.7695	2.4	-720	58	235	Under way using engine		3 10.208.34.241.9040	3/17/2019 9:41
Unknown	CA	Tug	316018851	9432957 CFN6643	SEASPAN RAVEN		4917 6802	-12304.7695	2.1	-720	69	242	Under way using engine		3 10.208.34.241.9040	3/17/2019 9:41
Unknown	CA	Tug	316018851	9432957 CFN6643	SEASPAN RAVEN		4917 6802	-12304.7695	1.7	-720	71	249	Under way using engine		3 10.208.34.241.9040	3/17/2019 9:41
Unknown	CA	Tug	316018851	9432957 CFN6643	SEASPAN RAVEN		4917 6802	-12304.7598	1.6	-720	65	258	Under way using engine		3 10.208.34.241.9040	3/17/2019 9:41
Unknown	CA	Tug	316018851	9432957 CFN6643	SEASPAN RAVEN		4917 6782	-12304.7607	1.1	-720	95	263	Under way using engine		3 10.208.34.241.9040	3/17/2019 9:41
Unknown	CA	Tug	316018851	9432957 CFN6643	SEASPAN RAVEN		4917 6802	-12304.7598	0.7	-720	36	267	Under way using engine		3 10.208.34.241.9040	3/17/2019 9:41
Unknown	CA	Tug	316018851	9432957 CFN6643	SEASPAN RAVEN		4917 6802	-12304.7598	0.8	-720	268	269	Under way using engine		3 10.208.34.241.9040	3/17/2019 9:41
Unknown	CA	Tug	316018851	9432957 CFN6643	SEASPAN RAVEN		4917 6802	-12304.7598	1.9	-720	285	271	Under way using engine		3 10.208.34.241.9040	3/17/2019 9:41
Unknown	CA	Tug	316018851	9432957 CFN6643	SEASPAN RAVEN		4917 6802	-12304.7695	2.4	-720	270	270	Under way using engine		3 10.208.34.241.9040	3/17/2019 9:41
Unknown	CA	Tug	316018851	9432957 CFN6643	SEASPAN RAVEN		4917 6797	-12304.7705	3	-720	284	273	Under way using engine		3 10.208.34.241.9040	3/17/2019 9:41
Unknown	CA	Tug	316018851	9432957 CFN6643	SEASPAN RAVEN		4917 6802	-12304.7695	3.3	-720	276	274	Under way using engine		3 10.208.34.241.9040	3/17/2019 9:41
Unknown	CA	Tug	316018851	9432957 CFN6643	SEASPAN RAVEN		4917 6802	-12304.7803	3.5	0	277	274	Under way using engine		3 10.208.34.241.9040	3/17/2019 9:41
Unknown	CA	Tug	316018851	9432957 CFN6643	SEASPAN RAVEN		4917 6802	-12304.79	4.2	-720	277	271	Under way using engine		3 10.208.34.241.9040	3/17/2019 9:41
Unknown	CA	Tug	316018851	9432957 CFN6643	SEASPAN RAVEN		4917 6802	-12304.7998	4.3	-720	276	269	Under way using engine		3 10.208.34.241.9040	3/17/2019 9:41
Unknown	CA	Tug	316018851	9432957 CFN6643	SEASPAN RAVEN		4917 6802	-12304.7998	4.5	-720	271	267	Under way using engine		3 10.208.34.241.9040	3/17/2019 9:41
Unknown	CA	Tug	316018851	9432957 CFN6643	SEASPAN RAVEN		4917 6802	-12304.8096	4.7	-720	269	266	Under way using engine		3 10.208.34.241.9040	3/17/2019 9:41
Unknown	CA	Tug	316018851	9432957 CFN6643	SEASPAN RAVEN		4917 6802	-12304.8203	4.7	-720	267	264	Under way using engine		3 10.208.34.241.9040	3/17/2019 9:41
Unknown	CA	Tug	316018851	9432957 CFN6643	SEASPAN RAVEN		4917 6802	-12304.8203	4.8	-720	264	264	Under way using engine		3 10.208.34.241.9040	3/17/2019 9:42
Unknown	CA	Tug	316018851	9432957 CFN6643	SEASPAN RAVEN		4917 6802	-12304.8301	4.8	-720	269	262	Under way using engine		3 10.208.34.241.9040	3/17/2019 9:42
Unknown	CA	Tug	316018851	9432957 CFN6643	SEASPAN RAVEN		4917 6802	-12304.8398	4.9	-720	265	260	Under way using engine		3 10.208.34.241.9040	3/17/2019 9:42
Unknown	CA	Tug	316018851	9432957 CFN6643	SEASPAN RAVEN		4917 6802	-12304.8496	5.1	-720	262	259	Under way using engine		3 10.208.34.241.9040	3/17/2019 9:42